SYSTEM SCHEMATICS

A3000

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A3000 FUNCTIONAL SPECIFICATION

INTRODUCTION

The A3000 is a cost reduced version of the A2500 personal computer. These cost reductions are achieved by extensive use of in house gate array technology, superior packaging and reduced power consumption. Visually, the A3000 is rendered similarly to a PS-2 computer; a low profile, small footprint case is used with a detached keyboard.

FEATURES

The objectives (features are:)

- 16 Mhz 68030 based CPU w/ 68881 optional (Optionally a 25 Mhz 68030 w/ 68882).
- 1 Meg of Chip Ram, expandable on board to 2 Meg. (32 bit access to CPU).
- 1 Meg of 32 bit wide Fast Ram, (expandable on board to 4 Meg).
- Kickstart in 32 bit ROM.
- Integral 3.5 inch Hard Disk & SCSI controller
- Facilities for 2 3.5 inch floppies.
- Real Time Clock.
- Facilities for on board de-interlacer/scan doubler.
- 4 100 pin Amiga slots, 2 of which are in line with PCAT slots, and one of which is in line with a new formfactor video slot.

The height and width of the A2000 casework has been replaced by a smaller footprint low profile case. The external floppy expansion disk connector has been replaced with the SCSI connector. The fan shall be less noisy than that on the A2000.

WHAT'S ADDED

The system now has a 68030 running with 32 bit wide RAM, and 32 bit wide ROM. An on board SCSI controller provides support for the optional internal hard disk drive, as well as a host of external peripherals such as optical disk drives, etc. 32 bit access to chip memory is provided.

CUSTOM CHIPS

The A3000 CPU will require the use of more custom integrated circuitry than any previous Commodore product. In addition to the 3 chip Amiga chipset, there are 5 new custom chips.

These include the system glue chip (FATGARY), a new expansion buss controller (FATBUSTER), a new ram controller with DMA support (RAMSEY), a new improved disk IO controller (SDMAC), and the flicker fixer gate array controller part (AMBER).

FATGARY

As the name implies, this chip is a larger version of the gary chip originally used in the A500 CPU design. Fat gary provides chip select and DASCK support for motherboard resources such as the 8520's, RTC, chipram, roms and SDMAC.

FATBUSTER

Fat Buster is a new, larger version of the A2000 chip of the same name. As before, it is responsible for expansion buss control and arbitration. However, the new buster also maps 32 bit 68030 memory cycles onto standard A2000 16 bit expansion buss cycles. Fat Buster also provides extensions to the standard A2000 16 bit buss protocol which allow full 32 bit address and data DMA to occur to and from expansion cards. Thus FATBUSTER allows us to mix and match existing 16 bit A2000 expansion cards, and a new 32 bit card format on the same expansion buss in a wholly compatible manner.

RAMSEY

RAMSEY is a dual function chip. It provides support for up to 4 megabytes of on board 32 bit wide ram, and provides address generation support for the super DMAC.

SDMAC

SDMAC is a new improved version of the 4701 series of disk & SCSI DMA controllers. SDMAC allows us to provide 32 bit Direct Disk DMA. It is felt that this will yield greatly improved system throughput for large applications, or disk intensive operating systems (read UNIX).

AMBER

Amber is the name of the flicker fixer controller gate array. This device, in conjuction with some specialized video memories, effectively provides a flicker fixer at low cost. This essential capability is to be option due to the sensitive cost of the specialized video drams required.

SYSTEM IO

The IO capabilities of the A3000 are as follows:

EXTERNAL SYSTEM IO

Serial/Parallel/Mouse/Joystick/Keyboard/Stereo Audio ports

These ports remain unchanged from their A2000 counterparts.

SCSI connector

This connector is the same as that found on the back of the 2090 series of hard disk controllers. It allows communication to a variety of devices including hard disks, optical drives and laser printers.

Video & VGA connectors

As in all Amigas, the A3000 supplies the standard 23 pin video connector. In addition, the on board flicker fixer provides a standard 15 pin VGA connector.

INTERNAL SYSTEM IO

The following connectors comprise the internal IO capabilities of the A3000.

- SCSI hard drive ribbon cable header
- 4 Amiga slots
 - 2 PC/AMIGA bridge slots
 - 1 Amiga slot colinear with video expansion
 - 1 1 Amiga only slot
- Socketed chip memory expansion good for upgrade from 1 to 2 meg of chip.
- Socketed fast RAM expansion for upgrade from 1 to 4 Meg.

MEMORY MAP

The A3000 makes use of the full 32 bit addressing capability of the MC68030. In the lower 16 Meg, (the only region addressable by the 68000), the memory map is basically unchanged from that of the A2000.

. 9	-000000	\$1FFFFF	Up to 2 Megs of Chip Memory
9	§20000-	\$9FFFFF	Auto Config Expansion space
\$.	A00000-	\$BFFFFF	IO Space (8520s)
. \$	C00000-	\$D7FFFF	Location of A500 Magic \$C00000 memory. Unused in this machine.
\$	D80000-	\$D9FFFF	Custom chip register mirror or real time clock.
\$I	DA0000-	\$DBFFFF	Unused.
\$1	DC0000-	\$DDFFFF	Real Time Clock.
. \$1	DE0000-	\$DFFFFF	Custom chip registers.
\$	E00000-	\$E80000	Unused.
\$	E80000-	\$E8FFFF	Autoconfig slot.
\$	E90000-	\$EFFFFF	64k autoconfig slots.
\$	F00000-	\$FFFFFF	Rom space.
\$01	1000000- 5	\$07FFFFFF	On board 32 bit ram space. This grows down from \$07FFFFFF.
\$08	3000000-\$	OFFFFFFF	32 bit ram expansion space. This grows up from \$08000000.
\$10	000000-\$	EFFFFFF	32 bit 'other' expansion space.

Commodore International Spare Parts ListSHIPPING ASSEMBLIES

Commodore part numbers are provided for reference only and do not indicate the availability of spare parts from Commodore. Industry standard parts (Resistors, Capacitors, Connectors) should be secured locally. Part number information may vary according to country, some parts may not be available in all countries.

313276-	01 A3000 SHIPPING ASSY (USA) 16 MHZ	533000-01	A3000 SHIPPING ASSY (EUROPEAN) 16 MHZ
363327-		363326-01	
330406	04 BAG FLAT 650 X 650 MM		BAG FLAT 650 X 650 MM
	01 PACKING END CAP	318992-01	
	01 PACKING END CAP		BAG DRYING AGENT
			TAPE ADHESIVE TRANSPARENT 50MM
316840	01 CARD READ THIS FIRST 01 LABEL UPC 02 MAIN ASSY (NTSC 110V) 16MHZ 15 CORD POWER		MAIN ASSY (PAL 220V) 16MHZ
313278	02 MAIN ASSY (NTSC 110V) 16MHZ	533000-02	
903508-	15 CORD POWER		BOX PACKING CPU
327124-	02 MOUSE ASSY		BAG FLAT 650 X 650 MM
313323-	02 KEYBOARD A3000 (U.S.) 01 MANUAL A3000 QUICK CONNECT GUIDE		PACKING END CAP
363312-	01 MANUAL A3000 QUICK CONNECT GUIDE		BAG DRYING AGENT
380426-	01 FOAM NEOPOLEN SET (USE W/KEYBD)		TAPE ADHESIVE TRANSPARENT 50MM
	02 BAG FLAT 580MM X 350 MM (USE W/KEYBD)	4	MAIN ASSY (PAL 220V) 25MHZ
324257-		<u> </u>	KEYBOARD ASSY A3000 U.K.
324252-			HOUSING KEYBOARD TOP
315929-			HOUSING KEYBOARD FOR
<u> </u>	02 A3000 SHIPPING ASSY (CANADA) 16 MHZ		PCB ASSY KEYBOARD U.K.
363327-			FOOT KEYBOARD ADJUSTABLE
320408-	'		PLATE SPRING
318992-			
318993-	01 PACKING SPACER	906883-04	
318170-	01 CARD READ THIS FIRST	906805-03	SCREW FLAT HEAD S.T. 2.9 X 9.5MM
316840-	01 LABEL UPC 02 MAIN ASSY (NTSC 110V) 16MHZ	1	FOOT PLASTIC
313278-	UZ MAIN ASSY (NISC 11UV) 16MHZ		CABLE KEYBOARD ASSY II HITEK
	15 CORD POWER		KEYBOARD ASSY A3000 U.S.
	02 MOUSE ASSY 02 KEYBOARD A3000 (U.S.)		HOUSING KEYBOARD TOP
363312	MANUAL A3000 QUICK CONNECT GUIDE	1	HOUSING KEYBOARD BOTTOM
380426	01 FOAM NEOPOLEN SET (USE W/KEYBD)	1	PCB ASSY KEYBOARD U.S.
251006-	POAM NEOPOLEN SET (USE W/KEYBD) BAG FLAT 580MM X 350 MM (USE W/KEYBD)		FOOT KEYBOARD ADJUSTABLE
324257	DI BAG DRYING AGENT	1	PLATE SPRING
1	07 TAPE ADHESIVE TRANSPARENT 50MM		WASHER FLAT 4.3 MM
	02 SOFTWARE SUB ASSY A3000 CANADA		SCREW PAN HEAD S.T. 2.9 X 9.5MM
L	D3 A3000 SHIPPING ASSY (USA) 25 MHZ	906805-03	SCREW FLAT HEAD S.T. 2.9 X 9.5MM
363327-		380129-01	FOOT PLASTIC
	04 BAG FLAT 650 X 650 MM		CABLE KEYBOARD ASSY II TOROID
	01 PACKING END CAP	313323-03	KEYBOARD ASSY A3000 GERMANY
	01 PACKING SPACER	312458-01	HOUSING KEYBOARD TOP
	01 CARD READ THIS FIRST		HOUSING KEYBOARD BOTTOM
316840-	01 LABEL UPC		PCB ASSY KEYBOARD GERMANY
313278-	04 MAIN ASSY (NTSC 110V) 25MHZ		FOOT KEYBOARD ADJUSTABLE
903508-	15 CORD POWER		PLATE SPRING
	02 MOUSE ASSY		WASHER FLAT 4.3 MM
313323-	02 KEYBOARD A3000 (U.S.) 01 MANUAL A3000 QUICK CONNECT GUIDE		SCREW PAN HEAD S.T. 2.9 X 9.5MM
363312-	01 MANUAL A3000 QUICK CONNECT GUIDE		SCREW FLAT HEAD S.T. 2.9 X 9.5MM
380426-	D1 FOAM NEOPOLEN SET (USE W/KEYBD)		FOOT PLASTIC
251006-	FOAM NEOPOLEN SET (USE W/KEYBD) BAG FLAT 580MM X 350 MM (USE W/KEYBD) BAG DRYING AGENT	<u></u>	CABLE KEYBOARD ASSY II HITEK
32425/-	UT BAG DRYING AGENT D7 TAPE ADHESIVE TRANSPARENT 50MM	313323-04	
324252-	I		
			HOUSING KEYBOARD BOTTOM
313276-			PCB ASSY KEYBOARD ITALY
363327-			FOOT KEYBOARD ADJUSTABLE
320408-			PLATE SPRING
318992-		907272-06 906883-04	
318993-		906805-03	SCREW FLAT HEAD S.T. 2.9 X 9.5MM
318170-	D1 CARD READ THIS FIRST D1 LABEL UPC	380129-01	
	DA MAIN ASSY (NTSC 110V) 25MHZ		CABLE KEYBOARD ASSY II HITEK
	15 CORD POWER		KEYBOARD ASSY A3000 FRANCE
	02 MOUSE ASSY		
313323-	02 KEYBOARD A3000 (U.S.)	312458-01	HOUSING KEYBOARD TOP HOUSING KEYBOARD BOTTOM
363312-			PCB ASSY KEYBOARD FRANCE
380426-	D1 FOAM NEOPOLEN SET (USE W/KEYBD)		FOOT KEYBOARD ADJUSTABLE
251006-			PLATE SPRING
324257-	D1 BAG DRYING AGENT		WASHER FLAT 4.3 MM
	77 TAPE ADHESIVE TRANSPARENT 50MM		SCREW PAN HEAD S.T. 2.9 X 9.5MM
315929-	D2 SOFTWARE SUB ASSY A3000 CANADA		SCREW FLAT HEAD S.T. 2.9 X 9.5MM
			FOOT PLASTIC
1			CABLE KEYBOARD ASSY II HITEK

Commodore International Spare Parts List SHIPPING ASSEMBLIES (Continued)

2 100E0-00	KEYBOARD ASSY A3000 SPAIN	533001-01	KEYBOARD SHIPPING ASSY U.K.
312458-01	HOUSING KEYBOARD TOP	313323-01	KEYBOARD ASSY U.K.
312375-01	HOUSING KEYBOARD BOTTOM	316828-01	LABEL CARTON U.K.
	PCB ASSY KEYBOARD SPAIN	251006-02	BAG FLAT 580 X 350 MM
	FOOT KEYBOARD ADJUSTABLE	380426-01	FOAM SET NEOPOLEN
	PLATE SPRING		CONTAINER SHIPPING
	WASHER FLAT 4.3 MM		TAPE TRANSPARENT ADHESIVE 50MM
	SCREW PAN HEAD S.T. 2.9 X 9.5MM		MOUSE ASSY
	SCREW FLAT HEAD S.T. 2.9 X 9.5MM		MANUAL USER A3000 U.K.
	FOOT PLASTIC		MANUAL BASIC ENGLISH
	CABLE KEYBOARD ASSY II HITEK		DISK ASSY 3.5 WORKBENCH V1.4 U.K.
			DISK ASSY 3.5 AMIGA EXTRAS V1.4 INTERNATIONAL
313323-07	KEYBOARD ASSY A3000 SWISS		CARD WARRANTY U.K.
	Housing Keyboard top		MANUAL WORKBENCH 1.4 ENGLISH
	HOUSING KEYBOARD BOTTOM		MANUAL A3000 QUICK CONNECT GUIDE
	PCB ASSY KEYBOARD SWISS		CORD POWER BSI MEDIUM BEIGE U.K. AUS
	FOOT KEYBOARD ADJUSTABLE		TOOL TUNNING
	PLATE SPRING	533001-02	
	WASHER FLAT 4.3 MM		
	SCREW PAN HEAD S.T. 2.9 X 9.5MM		KEYBOARD ASSY U.S.
	SCREW FLAT HEAD S.T. 2.9 X 9.5MM		LABEL CARTON U.S.A.
	FOOT PLASTIC		BAG FLAT 580 X 350 MM
3800 18-05	CABLE KEYBOARD ASSY II HITEK		FOAM SET NEOPOLEN
313323-08	KEYBOARO ASSY A3000 DENMARK		CONTAINER SHIPPING
	HOUSING KEYBOARD TOP		TAPE TRANSPARENT ADHESIVE 50MM
	HOUSING KEYBOARD BOTTOM		MOUSE ASSY
	PCB ASSY KEYBOARD DENMARK	363303-01	
	FOOT KEYBOARD ADJUSTABLE		MANUAL BASIC ENGLISH
	PLATE SPRING		DISK ASSY 3.5 WORKBENCH V1.4 U.S.
	WASHER FLAT 4.3 MM		DISK ASSY 3.5 AMIGA EXTRAS V1.4 U.S.
	SCREW PAN HEAD S.T. 2.9 X 9.5MM		CARD SOFTWARE LICENSE AGREEMENT
	SCREW FLAT HEAD S.T. 2.9 X 9.5MM		CARD WARRANTY U.S.A.
	FOOT PLASTIC		CARD DISK EXCHANGE U.S.A.
	CABLE KEYBOARD ASSY II HITEK		MANUAL WORKBENCH 1.4 ENGLISH
			BOOKLET SERVICE CENTER LIST U.S.A.
	KEYBOARD ASSY A3000 NORWAY		CARD REMINDER DISK & PRINTER CAUTIONS
312458-01	HOUSING KEYBOARD TOP		MANUAL A3000 QUICK CONNECT GUIDE
312375-01	HOUSING KEYBOARD BOTTOM	I.	CORD POWER MEDIUM BEIGE CSA/U.S.
312715-09	PCB ASSY KEYBOARD NORWAY	390543-01	TOOL TUNNING
	FOOT KEYBOARD ADJUSTABLE	533001-03	KEYBOARD SHIPPING ASSY GERMANY
	PLATE SPRING	313323-03	KEYBOARD ASSY GERMAN
	WASHER FLAT 4.3 MM		LABEL CARTON GERMAN
	SCREW PAN HEAD S.T. 2.9 X 9.5MM		BAG FLAT 580 X 350 MM
	SCREW FLAT HEAD S.T. 2.9 X 9.5MM		FOAM SET NEOPOLEN
	FOOT PLASTIC	380425-03	CONTAINER SHIPPING
380 018-05	CABLE KEYBOARD ASSY II HITEK	324252-07	TAPE TRANSPARENT ADHESIVE 50MM
313323-10	KEYBOARD ASSY A3000 SWEDEN/FINLAND		MOUSE ASSY
312458-01	HOUSING KEYBOARD TOP	363306-01	MANUAL USER A3000 GERMAN
	HOUSING KEYBOARD BOTTOM	380798-02	MANUAL BASIC GERMAN
	PCB ASSY KEYBOARD SWEDEN/FINLAND	317244-01	DISK ASSY 3.5 WORKBENCH V1.4 GERMAN
	FOOT KEYBOARD ADJUSTABLE	317236-01	DISK ASSY 3.5 AMIGA EXTRAS V1.4 GERMAN
	PLATE SPRING	318708-02	
007070 00 1	MARCHED ELAT A O MARA	320046- 06	
906883-04	SCREW PAN HEAD S.T. 2.9 X 9.5MM	363316-01	MANUAL WORKBENCH 1.4 GERMAN
906805-03	SCREW FLAT HEAD S.T. 2.9 X 9.5MM	363312-01	MANUAL A3000 QUICK CONNECT GUIDE
	FOOT PLASTIC	903508-11	CORD POWER VDE MEDIUM BEIGE
		1 000540 04	TOOL TUNNING
		390543-01	TOOL TONIANG
380018-05	CABLE KEYBOARD ASSY II HITEK	533001-04	
380018-05 313323-11	CABLE KEYBOARD ASSY II HITEK KEYBOARD ASSY A3000 ICELANDIC	533001-04	KEYBOARD SHIPPING ASSY ITALY
380018-05 313323-11 312458-01	CABLE KEYBOARD ASSY II HITEK KEYBOARD ASSY A3000 ICELANDIC HOUSING KEYBOARD TOP	533001-04 313323-04	KEYBOARD SHIPPING ASSY ITALY KEYBOARD ASSY ITALY
380018-05 313323-11 312458-01 312375-01	CABLE KEYBOARD ASSY II HITEK KEYBOARD ASSY A3000 ICELANDIC HOUSING KEYBOARD TOP HOUSING KEYBOARD BOTTOM	533001-04 313323-04 316830-01	KEYBOARD SHIPPING ASSY ITALY KEYBOARD ASSY ITALY LABEL CARTON ITALY
380018-05 313323-11 312458-01 312375-01 312715-11	CABLE KEYBOARD ASSY II HITEK KEYBOARD ASSY A3000 ICELANDIC HOUSING KEYBOARD TOP HOUSING KEYBOARD BOTTOM PCB ASSY KEYBOARD ICELANDIC	533001-04 313323-04 316830-01 251006-02	KEYBOARD SHIPPING ASSY ITALY KEYBOARD ASSY ITALY LABEL CARTON ITALY BAG FLAT 580 X 350 MM
380018-05 313323-11 312458-01 312375-01 312715-11 380130-01	CABLE KEYBOARD ASSY II HITEK KEYBOARD ASSY A3000 ICELANDIC HOUSING KEYBOARD TOP HOUSING KEYBOARD BOTTOM PCB ASSY KEYBOARD ICELANDIC FOOT KEYBOARD ADJUSTABLE	533001-04 313323-04 316830-01 251006-02 380426-01	KEYBOARD SHIPPING ASSY ITALY KEYBOARD ASSY ITALY LABEL CARTON ITALY BAG FLAT 580 X 350 MM FOAM SET NEOPOLEN
380018-05 313323-11 312458-01 312375-01 312715-11 380130-01 380131-01	CABLE KEYBOARD ASSY II HITEK KEYBOARD ASSY A3000 ICELANDIC HOUSING KEYBOARD TOP HOUSING KEYBOARD BOTTOM PCB ASSY KEYBOARD ICELANDIC FOOT KEYBOARD ADJUSTABLE PLATE SPRING	533001-04 313323-04 316830-01 251006-02 380426-01 380425-03	KEYBOARD SHIPPING ASSY ITALY KEYBOARD ASSY ITALY LABEL CARTON ITALY BAG FLAT 580 X 350 MM FOAM SET NEOPOLEN CONTAINER SHIPPING
380018-05 313323-11 312458-01 312375-01 312715-11 380130-01 380131-01	CABLE KEYBOARD ASSY II HITEK KEYBOARD ASSY A3000 ICELANDIC HOUSING KEYBOARD TOP HOUSING KEYBOARD BOTTOM PCB ASSY KEYBOARD ICELANDIC FOOT KEYBOARD ADJUSTABLE PLATE SPRING	533001-04 313323-04 316830-01 251006-02 380426-01 380425-03 324252-07	KEYBOARD SHIPPING ASSY ITALY KEYBOARD ASSY ITALY LABEL CARTON ITALY BAG FLAT 580 X 350 MM FOAM SET NEOPOLEN CONTAINER SHIPPING TAPE TRANSPARENT ADHESIVE 50MM
380018-05 313323-11 312458-01 312375-01 312715-11 380130-01 380131-01 907272-06 906883-04	CABLE KEYBOARD ASSY II HITEK KEYBOARD ASSY A3000 ICELANDIC HOUSING KEYBOARD TOP HOUSING KEYBOARD BOTTOM PCB ASSY KEYBOARD ICELANDIC FOOT KEYBOARD ADJUSTABLE PLATE SPRING WASHER FLAT 4.3 MM SCREW PAN HEAD S.T. 2.9 X 9.5MM	533001-04 313323-04 316830-01 251006-02 380426-01 380425-03 324252-07 327124-02	KEYBOARD SHIPPING ASSY ITALY KEYBOARD ASSY ITALY LABEL CARTON ITALY BAG FLAT 580 X 350 MM FOAM SET NEOPOLEN CONTAINER SHIPPING TAPE TRANSPARENT ADHESIVE 50MM MOUSE ASSY
380018-05 313323-11 312458-01 312375-01 312715-11 380130-01 380131-01 907272-06 906883-04 906805-03	CABLE KEYBOARD ASSY II HITEK KEYBOARD ASSY A3000 ICELANDIC HOUSING KEYBOARD TOP HOUSING KEYBOARD BOTTOM PCB ASSY KEYBOARD ICELANDIC FOOT KEYBOARD ADJUSTABLE PLATE SPRING WASHER FLAT 4.3 MM SCREW PAN HEAD S.T. 2.9 X 9.5MM SCREW FLAT HEAD S.T. 2.9 X 9.5MM	533001-04 313323-04 316830-01 251006-02 380426-01 380425-03 324252-07 327124-02 363305-01	KEYBOARD SHIPPING ASSY ITALY KEYBOARD ASSY ITALY LABEL CARTON ITALY BAG FLAT 580 X 350 MM FOAM SET NEOPOLEN CONTAINER SHIPPING TAPE TRANSPARENT ADHESIVE 50MM MOUSE ASSY MANUAL USER A3000 ITALIAN
380018-05 313323-11 312458-01 312375-01 312715-11 380130-01 380131-01 907272-06 906883-04 906805-03 380129-01	CABLE KEYBOARD ASSY II HITEK KEYBOARD ASSY A3000 ICELANDIC HOUSING KEYBOARD TOP HOUSING KEYBOARD BOTTOM PCB ASSY KEYBOARD ICELANDIC FOOT KEYBOARD ADJUSTABLE PLATE SPRING WASHER FLAT 4.3 MM SCREW PAN HEAD S.T. 2.9 X 9.5MM FOOT PLASTIC	533001-04 313323-04 316830-01 251006-02 380426-01 380425-03 324252-07 327124-02 363305-01 380798-04	KEYBOARD SHIPPING ASSY ITALY KEYBOARD ASSY ITALY LABEL CARTON ITALY BAG FLAT 580 X 350 MM FOAM SET NEOPOLEN CONTAINER SHIPPING TAPE TRANSPARENT ADHESIVE 50MM MOUSE ASSY MANUAL USER A3000 ITALIAN MANUAL BASIC ITALIAN
380018-05 313323-11 312458-01 312375-01 312715-11 380130-01 380131-01 907272-06 906883-04 906805-03 380129-01	CABLE KEYBOARD ASSY II HITEK KEYBOARD ASSY A3000 ICELANDIC HOUSING KEYBOARD TOP HOUSING KEYBOARD BOTTOM PCB ASSY KEYBOARD ICELANDIC FOOT KEYBOARD ADJUSTABLE PLATE SPRING WASHER FLAT 4.3 MM SCREW PAN HEAD S.T. 2.9 X 9.5MM SCREW FLAT HEAD S.T. 2.9 X 9.5MM	533001-04 313323-04 316830-01 251006-02 380426-01 380425-03 324252-07 327124-02 363305-01 380798-04 317243-01	KEYBOARD SHIPPING ASSY ITALY KEYBOARD ASSY ITALY LABEL CARTON ITALY BAG FLAT 580 X 350 MM FOAM SET NEOPOLEN CONTAINER SHIPPING TAPE TRANSPARENT ADHESIVE 50MM MOUSE ASSY MANUAL USER A3000 ITALIAN MANUAL BASIC ITALIAN DISK ASSY 3.5 WORKBENCH V1.4 ITALIAN
380018-05 313323-11 312458-01 312375-01 312715-11 380130-01 380131-01 907272-06 906883-04 906805-03 380129-01	CABLE KEYBOARD ASSY II HITEK KEYBOARD ASSY A3000 ICELANDIC HOUSING KEYBOARD TOP HOUSING KEYBOARD BOTTOM PCB ASSY KEYBOARD ICELANDIC FOOT KEYBOARD ADJUSTABLE PLATE SPRING WASHER FLAT 4.3 MM SCREW PAN HEAD S.T. 2.9 X 9.5MM FOOT PLASTIC	533001-04 313323-04 316830-01 251006-02 380426-01 380425-03 324252-07 327124-02 363305-01 380798-04 317243-01 317234-01	KEYBOARD SHIPPING ASSY ITALY LABEL CARTON ITALY BAG FLAT 580 X 350 MM FOAM SET NEOPOLEN CONTAINER SHIPPING TAPE TRANSPARENT ADHESIVE 50MM MOUSE ASSY MANUAL USER A3000 ITALIAN MANUAL BASIC ITALIAN DISK ASSY 3.5 WORKBENCH V1.4 ITALIAN DISK ASSY 3.5 AMIGA EXTRAS V1.4 INTERNATIONAL
380018-05 313323-11 312458-01 312375-01 312715-11 380130-01 380131-01 907272-06 906883-04 906805-03 380129-01	CABLE KEYBOARD ASSY II HITEK KEYBOARD ASSY A3000 ICELANDIC HOUSING KEYBOARD TOP HOUSING KEYBOARD BOTTOM PCB ASSY KEYBOARD ICELANDIC FOOT KEYBOARD ADJUSTABLE PLATE SPRING WASHER FLAT 4.3 MM SCREW PAN HEAD S.T. 2.9 X 9.5MM FOOT PLASTIC	533001-04 313323-04 316830-01 251006-02 380426-01 380425-03 324252-07 327124-02 363305-01 380798-04 317243-01 317234-01 363315-01	KEYBOARD SHIPPING ASSY ITALY LABEL CARTON ITALY BAG FLAT 580 X 350 MM FOAM SET NEOPOLEN CONTAINER SHIPPING TAPE TRANSPARENT ADHESIVE 50MM MOUSE ASSY MANUAL USER A3000 ITALIAN MANUAL BASIC ITALIAN DISK ASSY 3.5 WORKBENCH V1.4 ITALIAN DISK ASSY 3.5 AMIGA EXTRAS V1.4 INTERNATIONAL MANUAL WORKBENCH 1.4 ITALIAN
380018-05 313323-11 312458-01 312375-01 312715-11 380130-01 380131-01 907272-06 906883-04 906805-03 380129-01	CABLE KEYBOARD ASSY II HITEK KEYBOARD ASSY A3000 ICELANDIC HOUSING KEYBOARD TOP HOUSING KEYBOARD BOTTOM PCB ASSY KEYBOARD ICELANDIC FOOT KEYBOARD ADJUSTABLE PLATE SPRING WASHER FLAT 4.3 MM SCREW PAN HEAD S.T. 2.9 X 9.5MM FOOT PLASTIC	533001-04 313323-04 316830-01 251006-02 380426-01 380425-03 324252-07 327124-02 363305-01 380798-04 317243-01 363315-01 363312-01	KEYBOARD SHIPPING ASSY ITALY LABEL CARTON ITALY BAG FLAT 580 X 350 MM FOAM SET NEOPOLEN CONTAINER SHIPPING TAPE TRANSPARENT ADHESIVE 50MM MOUSE ASSY MANUAL USER A3000 ITALIAN MANUAL BASIC ITALIAN DISK ASSY 3.5 WORKBENCH V1.4 ITALIAN DISK ASSY 3.5 AMIGA EXTRAS V1.4 INTERNATIONAL

Commodore International Spare Parts List SHIPPING ASSEMBLIES (Continued)

316829-01 251006-02 380426-01 380425-03 324252-07 327124-02 363304-01 380798-03 317242-01 317234-01	KEYBOARD ASSY FRANCE LABEL CARTON FRANCE BAG FLAT 580 X 350 MM FOAM SET NEOPOLEN CONTAINER SHIPPING TAPE TRANSPARENT ADHESIVE 50MM MOUSE ASSY	316838-01 251006-02 380426-01	KEYBOARD ASSY NORWAY LABEL CARTON NORWAY BAG FLAT 580 X 350 MM FOAM SET NEOPOLEN CONTAINER SHIPPING
316829-01 251006-02 380426-01 380425-03 324252-07 327124-02 363304-01 380798-03 317242-01 317234-01	LABEL CARTON FRANCE BAG FLAT 580 X 350 MM FOAM SET NEOPOLEN CONTAINER SHIPPING TAPE TRANSPARENT ADHESIVE 50MM MOUSE ASSY	316838-01 251006-02 380426-01 380425-03	LABEL CARTON NORWAY BAG FLAT 580 X 350 MM FOAM SET NEOPOLEN
251006-02 380426-01 380425-03 324252-07 327124-02 363304-01 380798-03 317242-01 317234-01	BAG FLAT 580 X 350 MM FOAM SET NEOPOLEN CONTAINER SHIPPING TAPE TRANSPARENT ADHESIVE 50MM MOUSE ASSY	251006-02 380426-01 380425-03	BAG FLAT 580 X 350 MM FOAM SET NEOPOLEN
380426-01 380425-03 324252-07 327124-02 363304-01 380798-03 317242-01 317234-01	FOAM SET NEOPOLEN CONTAINER SHIPPING TAPE TRANSPARENT ADHESIVE 50MM MOUSE ASSY	380426-01 380425-03	FOAM SET NEOPOLEN
380425-03 324252-07 327124-02 363304-01 380798-03 317242-01 317234-01	CONTAINER SHIPPING TAPE TRANSPARENT ADHESIVE 50MM MOUSE ASSY	380425-03	
324252-07 327124-02 363304-01 380798-03 317242-01 317234-01	TAPE TRANSPARENT ADHESIVE 50MM MOUSE ASSY		I CONTINUED CONTROL
327124-02 363304-01 380798-03 317242-01 317234-01	MOUSE ASSY	1 724272-07	
363304-01 380798-03 317242-01 317234-01		327124-02	
380798-03 317242-01 317234-01	AAANUAL HOED AOOOO EDENOH		MANUAL USER A3000 NORWEGIAN
317242-01 317234-01	MANUAL USER A3000 FRENCH		MANUAL BASIC ENGLISH
317234-01	MANUAL BASIC FRENCH		DISK ASSY 3.5 WORKBENCH V1.4 NORWEGIAN
	DISK ASSY 3.5 WORKBENCH V1.4 FRENCH		DISK ASSY 3.5 AMIGA EXTRAS V1.4 INTERNATIONAL
	DISK ASSY 3.5 AMIGA EXTRAS V1.4 INTERNATIONAL		MANUAL WORKBENCH 1.4 ENGLISH
	CARD WARRANTY FRENCH MANUAL WORKBENCH 1.4 FRENCH		MANUAL A3000 QUICK CONNECT GUIDE
			CORD POWER VDE MEDIUM BEIGE
	MANUAL A3000 QUICK CONNECT GUIDE	390543-01	
	CORD POWER VDE MEDIUM BEIGE	-	
<u></u>	TOOL TUNNING	533001-10	
	KEYBOARD SHIPPING ASSY SPAIN		KEYBOARD ASSY SWEDEN/FINLAND
	KEYBOARD ASSY SPAIN		LABEL CARTON FINLAND
	LABEL CARTON SPAIN		BAG FLAT 580 X 350 MM
	BAG FLAT 580 X 350 MM		FOAM SET NEOPOLEN
	FOAM SET NEOPOLEN		CONTAINER SHIPPING
380 425-03	CONTAINER SHIPPING		TAPE TRANSPARENT ADHESIVE 50MM
	TAPE TRANSPARENT ADHESIVE 50MM		MOUSE ASSY
	MOUSE ASSY		MANUAL USER A3000 U.K.
363 307-01	MANUAL USER A3000 SPANISH		MANUAL BASIC ENGLISH
	MANUAL BASIC SPANISH	317240-01	DISK ASSY 3.5 WORKBENCH V1.4 INTERNATIONAL
317245-01	DISK ASSY 3.5 WORKBENCH V1.4 SPANISH		DISK ASSY 3.5 AMIGA EXTRAS V1.4 INTERNATIONAL
	DISK ASSY 3.5 AMIGA EXTRAS V1.4 INTERNATIONAL		MANUAL WORKBENCH 1.4 ENGLISH
363317-01	MANUAL WORKBENCH 1.4 SPANISH	I	MANUAL A3000 QUICK CONNECT GUIDE
	MANUAL A3000 QUICK CONNECT GUIDE		CORD POWER VDE MEDIUM BEIGE
903508-11	CORD POWER VDE MEDIUM BEIGE	390543-01	TOOL TUNNING
390 543-01	TOOL TUNNING	533001-11	KEYBOARD SHIPPING ASSY SWEDEN
5330 01-07	KEYBOARD SHIPPING ASSY NETHERLANDS		KEYBOARD ASSY SWEDEN/FINLAND
313 323-07	KEYBOARD ASSY DUTCH	316839-01	LABEL CARTON SWEDEN
316836-01	LABEL CARTON DUTCH	251006-02	BAG FLAT 580 X 350 MM
251006-02	BAG FLAT 580 X 350 MM		FOAM SET NEOPOLEN
380426-01	FOAM SET NEOPOLEN	380425-03	CONTAINER SHIPPING
380425-03	LABEL CARTON DUTCH BAG FLAT 580 X 350 MM FOAM SET NEOPOLEN CONTAINER SHIPPING TAPE TRANSPARENT ADHESIVE 50MM MOUSE ASSY MANUAL USER A3000 DUTCH		TAPE TRANSPARENT ADHESIVE 50MM
324252-07	TAPE TRANSPARENT ADHESIVE 50MM		MOUSE ASSY
32 7124-02	MOUSE ASSY	363311-01	MANUAL USER A3000 SWEDISH
363309-01	MANUAL USER A3000 DUTCH	380798-05	MANUAL BASIC SWEDISH
380798-09	MANUAL BASIC DUTCH		DISK ASSY 3.5 WORKBENCH V1.4 SWEDISH
317240-01	DISK ASSY 3.5 WORKBENCH V1.4 INTERNATIONAL	317234-01	DISK ASSY 3.5 AMIGA EXTRAS V1.4 INTERNATIONAL
317234-01	DISK ASSY 3.5 AMIGA EXTRAS V1.4 INTERNATIONAL	363313-01	MANUAL WORKBENCH 1.4 ENGLISH
363313-01	MANUAL WORKBENCH 1.4 ENGLISH		MANUAL A3000 QUICK CONNECT GUIDE
363312-01	MANUAL A3000 QUICK CONNECT GUIDE	903508-11	CORD POWER VDE MEDIUM BEIGE
	CORD POWER VDE MEDIUM BEIGE	390543-01	TOOL TUNNING
	TOOL TUNNING		KEYBOARD SHIPPING ASSY ICELANDIC
	KEYBOARD SHIPPING ASSY DENMARK		KEYBOARD ASSY U.K.
	KEYBOARD ASSY DENMARK		KEYBOARD ASSY ICELANDIC
316835-01	LABEL CARTON DENMARK		BAG FLAT 580 X 350 MM
251006-02	BAG FLAT 580 X 350 MM		FOAM SET NEOPOLEN
380426-01	FOAM SET NEOPOLEN		CONTAINER SHIPPING
380425-03	BAG FLAT 580 X 350 MM FOAM SET NEOPOLEN CONTAINER SHIPPING		TAPE TRANSPARENT ADHESIVE 50MM
324252-07	TAPE TRANSPARENT ADHESIVE 50MM		MOUSE ASSY
327124-02	MOUSE ASSY		MANUAL BASIC ENGLISH
363 308-01	MANUAL USER A3000 DANISH		DISK ASSY 3.5 WORKBENCH V1.4 INTERNATIONAL
	MANUAL BASIC ENGLISH		DISK ASSY 3.5 AMIGA EXTRAS V1.4 INTERNATIONAL
327273.02	DISK ASSY 3.5 WORKBENCH V1.4 DANISH		MANUAL WORKBENCH 1.4 ENGLISH
327273-02 317246-01	TIISK ASSY 3.5 VVORKBENCH V.I.4 DANISH	,	
327273-02 317246-01 317234-01	DISK ASSY 3.5 WURKBENCH VI.4 DANISH DISK ASSY 3.5 AMIGA EXTRAS VI.4 INTERNATIONAL	363312-01	MANUAL A3000 QUICK CONNECT GUIDE
327273-02 317246-01 317234-01 363313-01	CONTAINER SHIPPING TAPE TRANSPARENT ADHESIVE 50MM MOUSE ASSY MANUAL USER A3000 DANISH MANUAL BASIC ENGLISH DISK ASSY 3.5 WORKBENCH V1.4 DANISH DISK ASSY 3.5 AMIGA EXTRAS V1.4 INTERNATIONAL MANUAL WORKBENCH 1.4 ENGLISH	363312-01	MANUAL A3000 QUICK CONNECT GUIDE
303313-01	MANUAL WUNKBENCH 1.4 ENGLISH	363312-01 903508-11	MANUAL A3000 QUICK CONNECT GUIDE CORD POWER VDE MEDIUM BEIGE
363312-01 363312-01	DISK ASSY 3.5 WORKBENCH V1.4 DANISH DISK ASSY 3.5 AMIGA EXTRAS V1.4 INTERNATIONAL MANUAL WORKBENCH 1.4 ENGLISH MANUAL A3000 QUICK CONNECT GUIDE CORD POWER VDE MEDIUM BEIGE	363312-01 903508-11	MANUAL A3000 QUICK CONNECT GUIDE

Commodore International Spare Parts List SHIPPING ASSEMBLIES (Continued)

533001-13	KEYBOARD SHIPPING ASSY BELGIUM	315929-01	SOFTWARE SUB ASSY A3000 (U.S.)
313323-05	KEYBOARD ASSY FRANCE	317954-01	DISKETTE ASSY WORKBENCH 1.4 (ENG)
	BAG FLAT 580 X 350 MM	317235-01	DISKETTE ASSY AMIGA EXTRAS 1.4 (ENG)
380426-01	FOAM SET NEOPOLEN	318843-01	DISKETTE HOLDER
380425-03	FOAM SET NEOPOLEN CONTAINER SHIPPING TAPE TRANSPARENT ADHESIVE 50MM	318611-01	LABEL STOP
324252-07	TAPE TRANSPARENT ADHESIVE 50MM	318270-01	CARD WARRANTY (U.S.)
327124-02	MOUSE ASSY		CARD DISK EXCHANGE (U.S.)
363309-01	MOUSE ASSY MANUAL USER A3000 DUTCH MANUAL BASIC DUTCH DISK ASSY 3.5 WORKBENCH V1.4 BELGIUM DISK ASSY 3.5 AMIGA EXTRAS V1.4 INTERNATIONAL		MANUAL USER A3000 (ENG)
380708-00	MANUAL BASIC DUTCH		MANUAL BASIC (ENG)
317249-01	DISK ASSY 3.5 WORKBENCH V1.4 BEI GILIM		MANUAL WORKBENCH 1.4 (ENG)
317234-01	DISK ASSY 3.5 AMIGA EXTRAS V1.4 INTERNATIONAL		CARD SOFTWARE LICENSE AGREEMENT
363314-01	MANUAL WORKBENCH 1.4 FRENCH		BOOKLET SERVICE CENTER LIST
	LABEL CARTON BELGIUM		CARD REMINDER DISK/PRINTER CAUTIONS
	MANUAL A3000 QUICK CONNECT GUIDE		SHRINK WRAP
	CORD POWER VDE MEDIUM BEIGE		DISKETTE ASSY A3000 HD
	TOOL TUNNING		TOOL TUNNING
533001-14	KEYBOARD SHIPPING ASSY CANADA (NOT USED)		SOFTWARE SUB ASSY A3000 (CAN.)
	KEYBOARD ASSY U.S.		DISKETTE ASSY WORKBENCH 1.4 (ENG)
251006 -02		317235-01	DISKETTE ASSY AMIGA EXTRAS 1.4 (ENG)
	FOAM SET NEOPOLEN		DISKETTE HOLDER
	CONTAINER SHIPPING		LABEL STOP
324252-07	TAPE TRANSPARENT ADHESIVE 50MM		CARD WARRANTY (CAN.)
	1 4 6 4 6 6 4 6 6 7 7		CARD DISK EXCHANGE (CAN.)
363303-01	MANUAL USER A3000 U.K.		MANUAL USER A3000 (ENG)
227272 02	MANUAL BASIC ENGLISH		MANUAL BASIC (ENG)
217241 01	DICK ACCA 3 2 MUDRAEVICH /1 4 H K		MANUAL WORKBENCH 1.4 (ENG)
217225 01	DICK ACCV 2.5 AMICA EVIDAC VI A II C		CARD SOFTWARE LICENSE AGREEMENT
210006 01	CADD COST 3.3 AINIGA EXTRAS VI.4 0.3.		CARD REMINDER DISK/PRINTER CAUTIONS
310030-01	MANUAL MADRENCH 1 / ENCLICH		SHRINK WRAP
200720 01	MANUAL USER A3000 U.K. MANUAL BASIC ENGLISH DISK ASSY 3.5 WORKBENCH V1.4 U.K. DISK ASSY 3.5 AMIGA EXTRAS V1.4 U.S. CARD SOFTWARE LICENSE AGREEMENT MANUAL WORKBENCH 1.4 ENGLISH CARD REMINDER DISK & PRINTER CAUTIONS LABEL CARTON CANADA CARD WARRANTY CANADA		DISKETTE ASSY A3000 HD
216024 01	LABEL CAPTON CANADA	390543-01	
219556 02	CARD DICK EACHANGE CANADA	000040 01	·
210000-02	CARD WARRANTY CANADA	1	
310002-01	MANUAL A3000 QUICK CONNECT GUIDE		
	CORD POWER MEDIUM BEIGE CSA/U.S.		
	TOOL TUNNING KEYBOARD SHIPPING ASSY AUSTRALIA		
533001-15			
	KEYBOARD ASSY U.K.		
	BAG FLAT 580 X 350 MM		
	FOAM SET NEOPOLEN	1	
	CONTAINER SHIPPING TAPE TRANSPARENT ADHESIVE 50MM	1	
B .	MOUSE ASSY MANUAL USER A3000 U.K.		
363303-01	LAMANUM DACIO ENGLICII		
327273-02	MANUAL BASIC ENGLISH		
317241-01	DISK ASSY 3.5 WORKBENCH V1.4 U.K. DISK ASSY 3.5 AMIGA EXTRAS V1.4 INTERNATIONAL		
317234-01	UISK ASSY 3.5 AMIGA EXTRAS VT.4 INTERNATIONAL		
363313-01	MANUAL WORKBENCH 1.4 ENGLISH CARD WARRANTY AUSTRALIA		
318884-01	CARD WARRANTY AUSTRALIA		
363312-01	MANUAL A3000 QUICK CONNECT GUIDE		
•	CORD POWER BSI MEDIUM BEIGE U.K. AUS		
390543-01	TOOL TUNNING	1	

Commodore International Spare Parts List MAJOR ASSEMBLIES

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MAIN ASSY		MOUNTING	BRACKET ASSY - A3000
313278-01	MAIN ASSY PAL 220V 16MHZ	313285-01	BRACKET ASSY MOUNTING 240 VOLT
	MAIN ASSY NTSC 110V 16MHZ	313285-02	
	MAIN ASSY PAL 220V 16MHZ	313292-01	BRACKET DRIVE & POWER SUPPLY MOUNTING
	MAIN ASSY NTSC 110V 25MHZ	906800-05	SCREW MACH M3 X 0.5 X 6.0 LG
	BASE ASSY PAL 16 MHZ	390500-01	
	BASE ASSY NTSC 16 MHZ		POWER SUPPLY A3000 120 VOLT
	BASE ASSY PAL 25 MHZ		R ASSEMBLY
	BASE ASSY NTSC 25 MHZ		
	DRIVE ASSY HARD (ADD CABLE CONNECTIONS)		LED HOLDER ASSY
	DRIVE ASSY FLOPPY (ADD CABLE CONNECTIONS)		LED 2.0MM X 10.0MM GREEN LED
313284-01	BRACKET MOUNTING 3.5 DISK DRIVE		LED 2.0MM X 10.0MM YELLOW LED
	CARD EXPANSION PCB ASSY	313316-01	
	· · · · · · · · · · · · · · · · · · ·	903351-05	CONNECTOR HOUSING 5 PINS
	SUPPORT CONNECTOR BOARD	903353-01	CONNECTOR PINS
	INSULATION SHEET BACK PLANE	903756-02	LEAD WIRE AWG 24 RED L = 120.0MM
	ROD CONNECTING	903756-10	LEAD WIRE AWG 24 BLACK L = 120.0MM
	BUTTON POWER	COVER ASS	Y- A3000
	COVER ASSY		COVER ASSY
	SCREW MACH., W/EXT. TOOTH 4 X 0.7 X 6.0 LG		COVER TOP
BASE ASSY		•	BEZEL FRONT
313281-01	BASE ASSY PAL 16 MHZ	313280-01	
	BASE ASSY NTSC 16MHZ	906884-03	
	BASE ASSY PAL 25 MHZ		COVER FLOPPY DRIVE HOLE
	BASE ASSY NTSC 25 MHZ	310317-03	LENS FLOPPY LED
	MAIN CHASSIS BASE	3.5 HARD (DISK DRIVE CABLE ASSY
	BRACKET OPTION CARD	311829-01	CABLE ASSY 3.5 HARD DISK DRIVE
	GUIDE PCB		CABLE ASSY 3.5 HARD DISK DRIVE
	SCREW FLAT HEAD M3 X 0.5 X 4.0 LG	903468-07	CONNECTOR SOCKET 50 POS
	SCREW MACH W/EXT TOOTH M4 X 0.7 X 6.0 LG		CABLE FLAT 50 POS X 575.0 ± 5.0 MM LG
	SCREW MACH M3 X 0.5 X 6.0 LG	DRIVE CAR	LE ASSY II A3000
	STANDOFF D CONN	<u> </u>	
	FOOT	i .	CABLE ASSY DRIVE II AMIGA/MATSUSHITA JU363-282/CHINON F354
	BRACKET MOUSE & KEYBOARD PCB		CABLE ASSY DRIVE II AMIGA/MATSUSHITA JU253-02T/CHINON FB354
	LED HOLDER ASSY		CABLE FLAT 34 POS L = 570MM
	PCB ASSY PAL 16 MHZ		CONN DUAL ROW 34P
	PCB ASSY NTSC 16 MHZ	380328-01	PLUG KEYING
040040.00	DOD 100V DAY OF 1447	HARD DRIV	/E SUB ASSY
313310-04	PCB ASSY NTSC 25 MHZ	313319-01	DRIVE HARD ASSY (SUBASSEMBLY)
318233-01	INSULATION SHEET	313440-01	
390251-04	STAND DEES HEX M/E 5 MM	906610-01	
316854-01	LABEL FOC ID		BRACKET MOUNTING 3.5 HDD
	PCB ASSY PAL 25 MHZ PCB ASSY NTSC 25 MHZ INSULATION SHEET STAND OFFS HEX M/F 5 MM LABEL FCC ID LABEL BACK PANEL		I was a second of the second o
	CABLE SCSI DRIVE		RIVE SUB ASSY
380742 -03	CABLE FLOPPY DRIVE	313318-01	,
38012 0-01	CARD PANEL EXTENSION		DRIVE 3.5 FLOPPY DISK
380739 -01	CARD PANEL EXTENSION CARD PANEL EXPANSION		BRACKET MOUNTING 3.5 DISK DRIVE
313277-01	CARD PANEL EXPANSION - VIDEO ADAPTER	325541-03	SCREW MACH W/EXT TOOTH M3 X 0.5 X 8.0 LG
390329-01	SCREW MACH W/EXT TOOTH M3.5 X 0.6 X 5.0 LG		
313285-01	BRACKET ASSY MOUNTING 240 V		
	BRACKET ASSY MOUNTING 240 V		
390662-	STANDOFF HEX M/F		<u> </u>

Commodore International Spare Parts List

PCB Components PCB Assembly #313310

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IC COMPON	ENTS	·	RESISTOR	PACKS (Continued)	·-
901882-01	1488	U304		RPK 1K OHM 9 X 10	RP100-RP110,RP351,
901883-01	1489	U305	1302410 10		RP703
318099-01	414256 100 NS	U850-U881,U274(U263-	902441-31	RPK 4.7K OHM 5 X 6	RP453-RP455
310033-01	414230 100 113	U266,U271-U274,U858-	902422-22	1K OHM 7 X 8	RP609,RP610,RP180
		U881) NOT INSERTED	902441-17	470 OHM 5 X 6	RP701
901522-30	7407	U713,U801	380388-04	220/330 10 PIN	RP802,RP804
	74ALS163	U476		220/330 6 PIN	RP803
	74F04	U204,U711		5% @ 1/4 WATT, CARBON FILM, UNLESS OTHE	<u> </u>
	74F08	U303.U710			
	74F373	U251	901550-118	1	R400,R478,R479
390089-01	74F245	U702,U7 08 ,U709,U715,		1.2K OHM	R401,R402
0000000		U716,U257,U258,U891-	901550-64	10 OHM	R403,R404,R484
		U894	901550-20	10K OHM	R191,R305,R306, R405 ,
390077-01	74F32	U712			R406,R408,R431,R432,
	74F646	U253-U256,U703-U707			R441,R442,R451,R452, R454
390081-01	74F74	U106	901550-137	O1 OHM	R489
310001-01	74HC14	U477	901550-137		R302,R433,R443,R482,
318828-01	74HCT244	U451-U4 52	901000-01	I I OTIVI	R483,R487,R803,R805
901521-03	74LS08	U355	901550-23	2.7K OHM	R407
	74LS157	U401	901550-23		R301
	74LS174	U195,U354	901550-112		R110,R112
	74F86	U252	901550-02		R472,R473,R475-R477,
901521-01		U353	901330-103	OG OTHER	R896
901521-06		U201,U351,U480	901550-108	360 OHM	R430,R440
	8372 FAT AGNUS 2 MEG	U205	901550-100		R434,R444
	8520	U300,U350			R203
	AMBER	U478		47 OHM	R202,R204,R895
	8373 ECS DENISE	U450	901550-58		R190,R192,R699
	DPMC	U802		470K OHM	R435,R445
	FAT BUSTER	U700	901550-131		R300
	FAT GARY 4141F008A	U110	901550-94		R307
	MSM 514221RS-6	U470-U472	901550-114		R480
	LF347	U402	901550-63		R100-R101,R106,R109,
	MC68030 16 MHZ QFP	U100			R450,R809
	MC68881 16 MHZ PLCC	U101	901550-07	100K OHM	R193
	MC68030 25 MHZ QFP	U100		1 OHM 1/2W 5% CARBON	R420
	MC68882 25 MHZ PLCC	U101	901600-15	47 OHM 1/2W 5% CARBON	R353
	NE564	U481		UNSTUFFED RESISTOR	R409
	PAULA	U400	CAPACITOR	S	-
	UPD 42101C-2	U473-U475,U479		20 PF AXIAL	C192
	WD33C93	U800 U112		47 PF AXIAL	C458
	PST518 RAM CONTROLLER	U890		56 PF AXIAL	C193
	RP5C01	U190		100 PF NPO AXIAL	C420-C422.C459.C491.
	ROM V1.4 32 BIT HIGH WORD	U181	300402 07	100 11 III O POMAL	C496.C498
	ROM V1.4 32 BIT LOW WORD	U180	900463-08	220 PF AXIAL	C108.C109
	DELAY LINE 25 NS	U102		3900 PF AXIAL	C432,C442
	PAL PROG 16L8D	U202		6800 PF AXIAL	C431,C441
	PAL PROG 16L8D	U203	900463-28	.01 UF AXIAL	C103,C104,C161,C170,
	PAL PROG 16R4A	U701			C172,C174,C176,C177,
	PAL PROG 16L8D	U714			C402
OSCILLATOR			900463-36	.047 UF AXIAL	C411-C414
		11111	900462-27	39 PF AXIAL	C497
	28.375 MHZ (PAL)	U111 U111	390082-01	.1 UF AXIAL MLC	C102,C106,C111,C191,
	28.6363 MHZ (NTSC)	U104			C195,C201-C205,C251-
	32 MHZ 50 MHZ	U104 U104			C258,C300,C305,C350-
	OSC	U103 UNSTUFFED	1	•	C355,C362,C400,C401,
	The state of the s	0.00 0.00 0.01 0.0			C409,C410,C415,C434.
RESISTOR P		BB300 B3000 B3000		·	C444,C451-C452,C470-
	22 OHM 4 X 8	RP700,RP890,RP891		,	C482,C484-C486,C489,
326149-04	47 OHM 4 X 8	RP252-RP254,RP451,	000000 00	OO HE AVIAL MI O	C490,C494,C495
		RP452	390082-05	.22 UF AXIAL MLC	C100,C101,C110,C180-
	63 OHM 4 X 8	RP401	1		C183,C403,C405,C406.
	470 OHM 9 X 10	RP256			C450,C455-C457,C700-
	1K OHM 5 X 6	RP600,RP601,RP702	1,00000	20 HE AVIAL MIC	C716
	4.7K OHM 9 X 10	RP400	390082-04	.33 UF AXIAL MLC	C259-C274,C800,C801,
	22 OHM 5 X 10	RP892,RP893	000400 40	1 O LIC DADIAL TANT	C850-C873,C890-C894 C487,C488
	3.3K OHM 5 X 10	RP350,RP800,RP801		1.0 UF RADIAL TANT	C190,C404
390227-06	47 OHM 5 X 10	RP201,RP251,RP255	390101-05	4.7 UF RADIAL ELECTROLYTIC	0 130;0404

Commodore International Spare Parts List

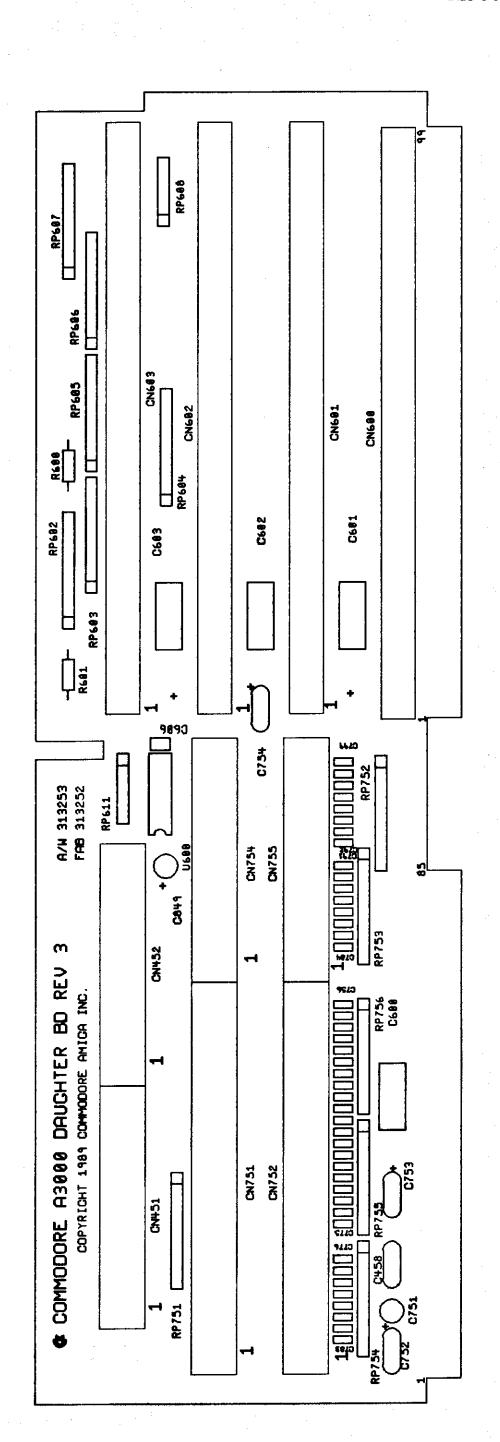
PCB Components (Continued)
PCB Assembly #313310

CAPACITOR	S (Continued)		MISCELLAN	IEOUS <i>(Continued)</i>	
900402-01	10 UF RADIAL TANT	C483	390280-01	FUSE 3A	F300,F350,F351,F400,
390101-04	22 UF RADIAL ELECTROLYTIC	C105,C107,C113,C317,			F450
		C318,C433,C443	903025-01	FERRITE BEAD	FB110,FB111,FB400,
390101-01	47 UF RADIAL ELECTROLYTIC	C112,C162-C169,C171,			FB401,FB420-FB422,
		C173,C175,C407,C408,			FB480-FB487
		C899	903326-03	HEADER SIL .100	J101,J102,J104,J151,
390101-02	100 UF RADIAL ELECTROLYTIC	C178			J152,J180,J200,J350-
390101-03		C160,C416,C423,C454,			J352,J481- J483,J800 ,
		C460,C492,C493			J851,J 853
	UNSTUFFED RESERVED CAPACITORS	C307,C308,C430,C440	903326-05	HEADER SIL .100 1 X 5	J852
CONNECTO			903326-04	HEADER SIL .100 1 X 4	J100,J103
		Louison	390229-01	IC VIDEO HYBRID	HY450,HY480
252166-03		CN420	902410-11	RESISTOR PACK, 470 OHM 9 X 10	RP256
390557-01	200 PIN RECEPTACLE	CN606	902442-06	RESISTOR PACK, 68 OHM 4 X 8	RP401
903345-17	34 PIN DIL	CN351	904150-06	SOCKET 40 PIN DIP	U180,U181,U300,U350
903345-25	50 PIN	CN802			U800
903374-05	5 PIN SIL RA	CN302	251313-01	SOCKET 48 PIN DIP	U400,U450
903446-06	CONN 100	CN600	390185-01	SOCKET 84 PIN PIN PLCC	U890,U110,U205,U700
252122-01	RCA JACK WHITE	CN402			U802
390334-01	DB15	CN480	390185-02	SOCKET 68 PIN PLCC	U478
390242-03	D-SUB 23P MALE PCB	CN450	904150-01	SOCKET 14 PIN DIP .300	U103
390242-05	D SUB 25P MALE PCB	CN300	904150-08	SOCKET 20 PIN DIP .300	U202,U203,U267-U274
390242-01	D SUB 9P MALE PCB	CN400,CN401			U701,U714,U850-U881
903446-05		CN451	390060-01	SOCKET 24 PIN DIP .300	U473,U474,U475,U479
390241-05		CN350,CN801	904150-06	SOCKET 40 PIN DIP	U180,U181,U300,U350
390625-01	POW15	CN160			U800
252122-02		CN403	904150-02	SOCKET 16 PIN DIP .300	U470,U471,U472
327033-04	D SUB 23 PIN FEMALE PCB	CN352	390043-01	SHUNT PACK DIP	J100-J104,J151,J152,
MISCELLAN	IEOUS				J180,J181,J200,J350-
380393-01	BATTERY NICAD 3.6V 60 MAH	BT190			J3 52,J481-J483, J800 ,
390536-01	SWITCH, S.P.S.T. TOGGLE RA	SW480			J801,J851-J 853
900750-01	DIODE 1N4001	D192.D193	251029-07	CAP VAR 3-11 PF	VC470
900850-01	DIODE 1N4148	D190,D191,D300,D800	251029-06	CAP VAR 22-47 PF	VC190
251842-02	EMI FILTERS 3 PIN	EM1300-EM1309,	390546-01	RES VAR 1K 15 TURN	VR470
		EM1350-EM1364,		CRYSTAL 32768HZ	Y190
		EM1430-EM1436,	390192-01		Q300
		EM1440-EM1442,	902707-01	TRANSISTOR 2N3906	Q400
		EM1444-EM1446,	390252-01	TRANSISTOR MPF102	Q430,Q440
		EM1450,EM1451,			·
		EM1453-EM1456,			
		EM1458,EM1459,	[
		EM1490-EM1494			[

Commodore International Spare Parts List

A3000 Daughter Board PCB Assembly #313250-01

IC COMPON	ENTS		CAPACITORS	
380227-01	74HCT32	U600	390082-01 CER AXL 1 UF	C606
RESISTOR PACKS		390082-05 CER AXL 22 UF	C752-C754,C849	
902410-10 380388-01 380388-04	SIP 1K 5 RES 6 PIN SIP 1K 9 RES 10 PIN SIP 220/330 4 RES 6 PIN 220/330 8 RES 10 PIN SIP 4.7K 9 RES 10 PIN	RP611 RP752-RP756 RP608 RP602-RP607 RP751	900014-02 CER RAD 1000 PF 900101-47 ELEC AXL 220 UF 16V 390101-04 ELEC RAD 22 UF 16V 900462-29 CER AXL 47 PF 50V CONNECTORS	C756-C799 C600-C603 C751 C458
RESISTORS,		1111 731	903446-06 CARD EDGE 100 PIN	CN600-CN603
901550-58 901550-01		R601 R600	903446-04 CARD EDGE 36 PIN 903446-02 CARD EDGE 62 PIN	CN451,CN452,CN754, CN755 CN751,CN752



A3000 DAUGHTER BOARD, REV. 3

JUMPER SETTINGS

JUMPER	PINS	313311 -01	313311 -02	313311 -03	313311 -04	FUNCTION
J100	4	2-3	2-3	1-2	1-2	Quadrature Clock Phasing
J101	3	2-3	2-3	2-3	2-3	FPU Clock Source
J102	3	2-3	2-3	2-3	2-3	System Clock Source
J103	4	3-4	3-4	3-4	3-4	FPU CS/BERR
J104	3	1-2	1-2	1-2	1-2	CPU Clock Source
J200	3	1-2	2-3	1-2	2-3	NTSC/PAL Select
J151	3	2-3	2-3	1-2	1-2	Rom Timing
J152	3	2-3	2-3	1-2	1-2	Rom Timing
J180	3	2-3	2-3	2-3	2-3	A2000 ROM Compatibility Jumpers
J181	3	2-3	2-3	2-3	2-3	A2000 ROM Compatibility Jumpers
J350	3	1-2	1-2	1-2	1-2	Tick Clock Source
J351	3	2-3	2-3	2-3	2-3	Disable DF1: (1-2 to enable)
J352	3	2-3	2-3	2-3	2-3	Light Pen Source
J481	3	2-3	2-3	2-3	2-3	VDE Scan Double Only Jumper
J482	3	1-2	1-2	1-2	1-2	VDE PLL Loop Adjust
J483	3			****		VDE Factory Test Points
J800	3	1-2	1-2	1-2	1-2	WD33C93 Speed
J851	3	1-2	1-2	2-3	2-3	RAM Controller Speed Jumper
J852	5	4-5	4-5	4-5	4-5	-012A Ramsey only (See Notes)
J853	3	2-3	2-3	2-3	2-3	-012A Ramsey only (See Notes)

Notes:

J150,J151: Rom Timing

The rom timing circuit provides four different speed settings to match the output enable, and access timing of the system roms.

To set the jumpers, determine the output enable time, and access times for the roms you wish to use. The rom must have lower values than for the setting you select.

System standard roms have Toe = 110 ns, and Tacc = 250 ns.

CLK	J151	J150	Toe (min)	Tacc (min)
16 Mhz	2-3	2-3	157 ns	250 ns
16 Mhz	2-3	1-2	220 ns	312 ns
16 Mhz	1-2	2-3	282 ns	375 ns
16 Mhz	1-2	1-2	345 ns	437 ns
25 Mhz	2-3	2-3	90 ns	160 ns
25 Mhz	2-3	1-2	130 ns	200 ns
25 Mhz	1-2	2-3	170 ns	240 ns
25 Mhz	1-2	1-2	210 ns	280 ns

J180,J181: Rom Compatibility Jumpers

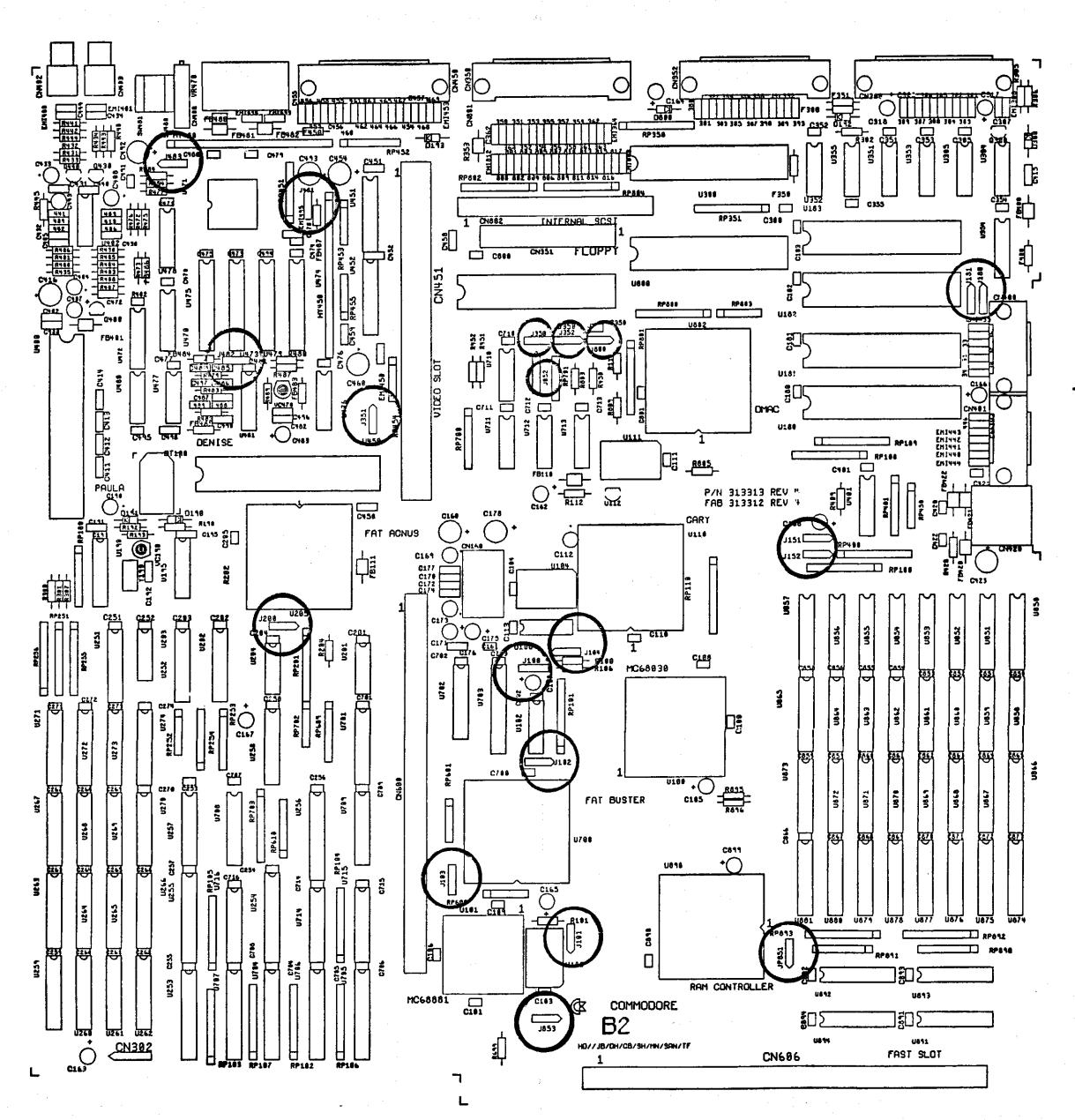
 J180
 J181

 A2000/A500 ROMS:
 1-2
 1-2

 A3000 ROMS:
 2-3
 2-3

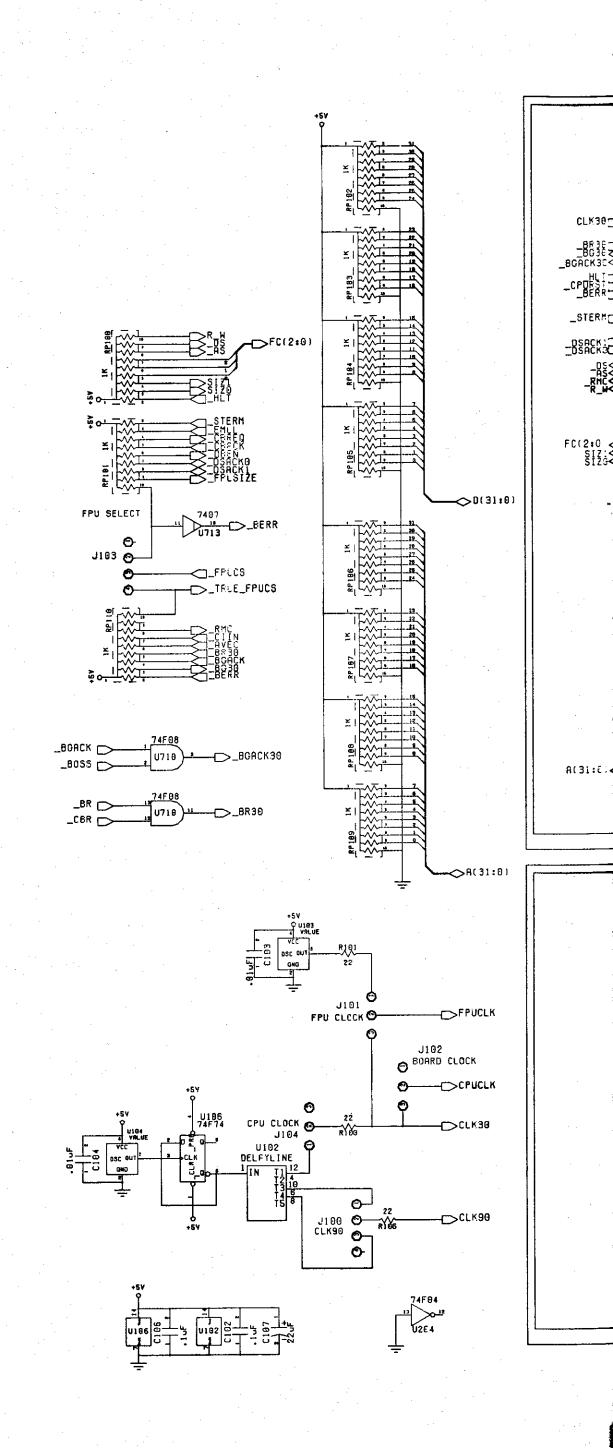
J851-J853: Ram Controller Compatibility Settings

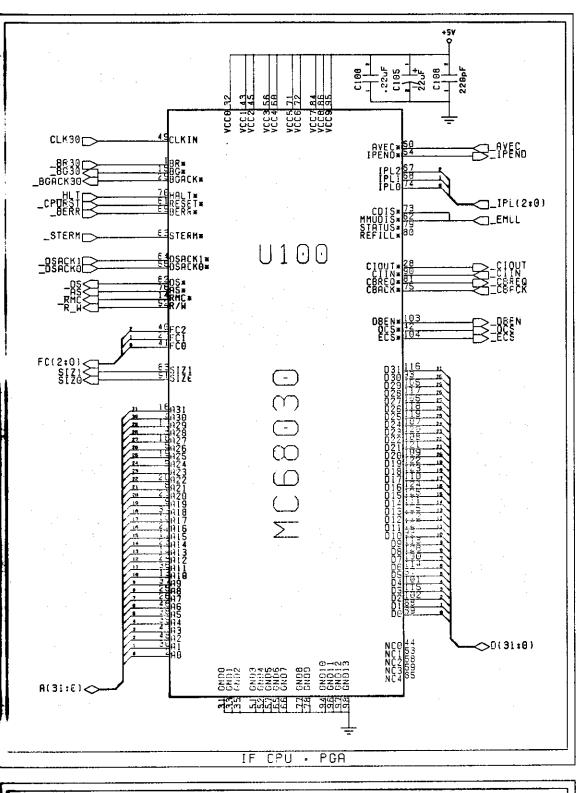
	J852	J853
-012A Ramsey w/ 256Kx4 rams	4-5	2-3
Later Ramseys w/ 256Kx4 rams	2-3	1-2
Later Ramseys w/ 1Mx4 rams	1-2	1-2

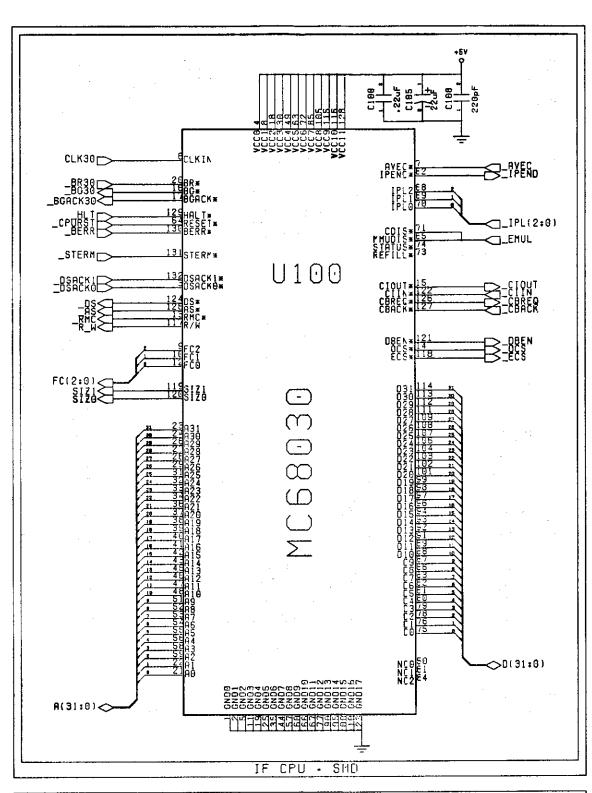


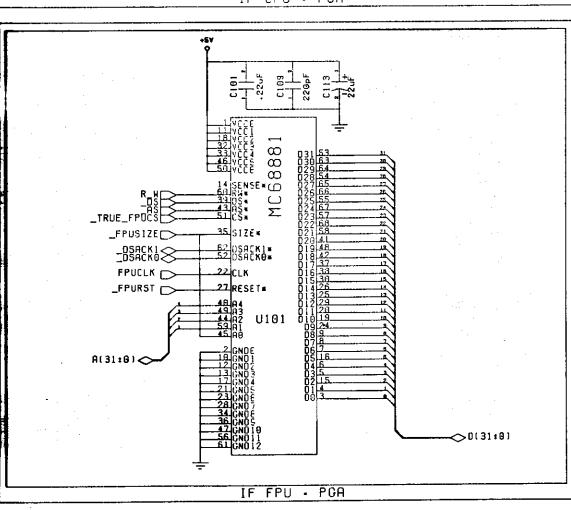
PCB BOARD LAYOUT #313311, REV. A

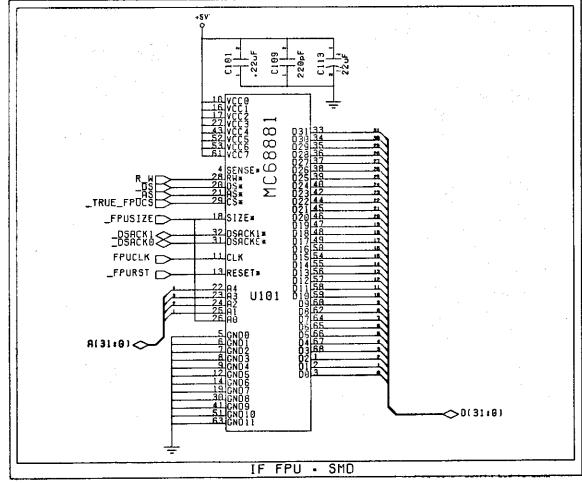
Schematic #313311, Rev. A Sheet 1 of 16









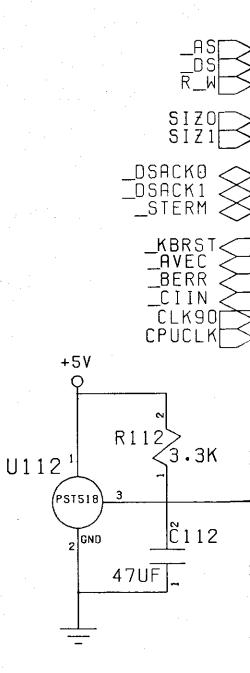


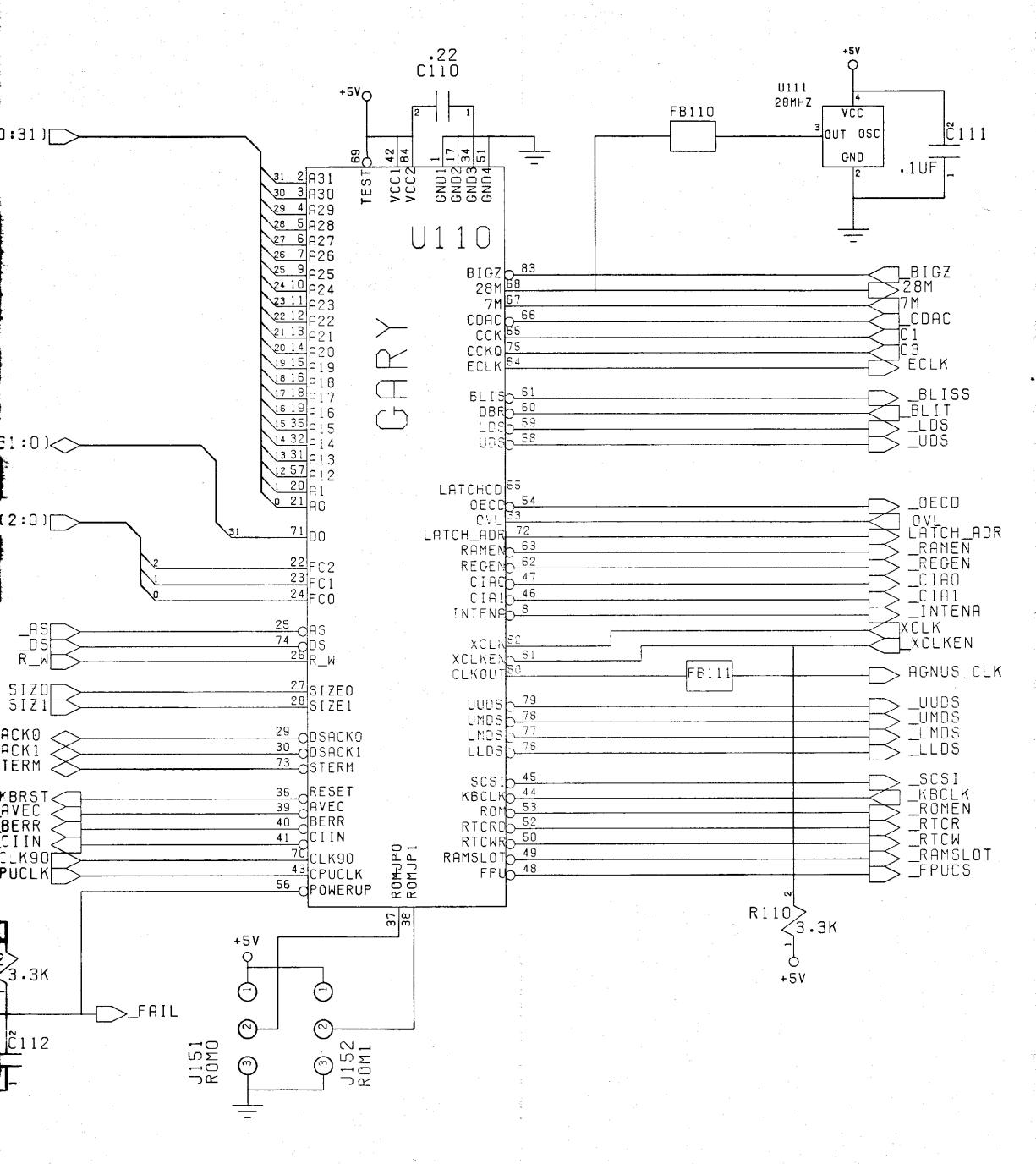
Schematic #313311, Rev. A Sheet 2 of 16

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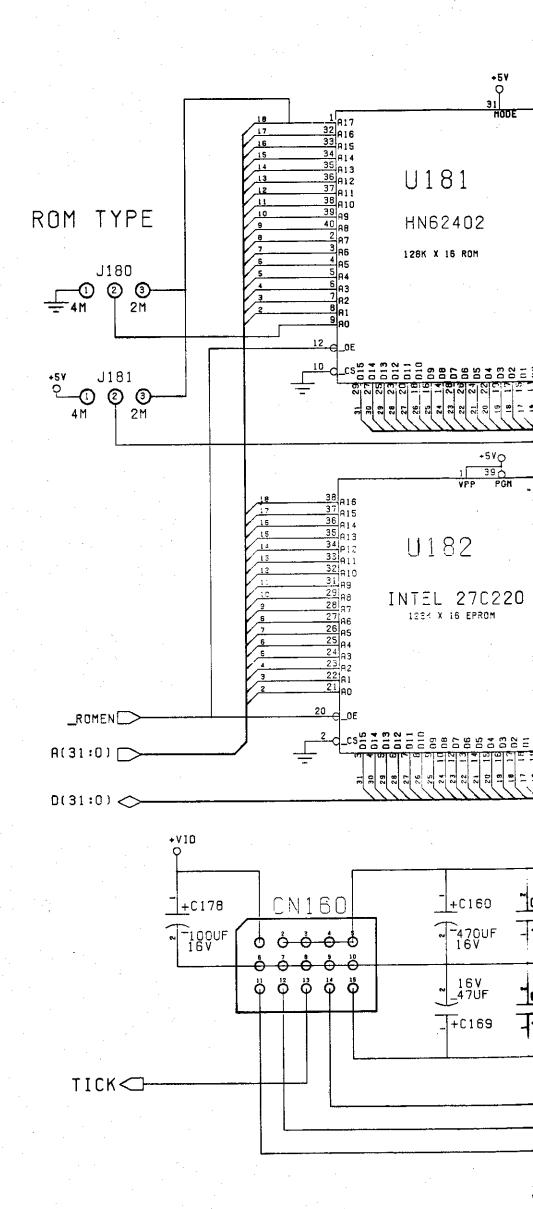
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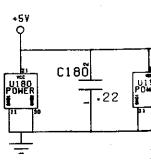
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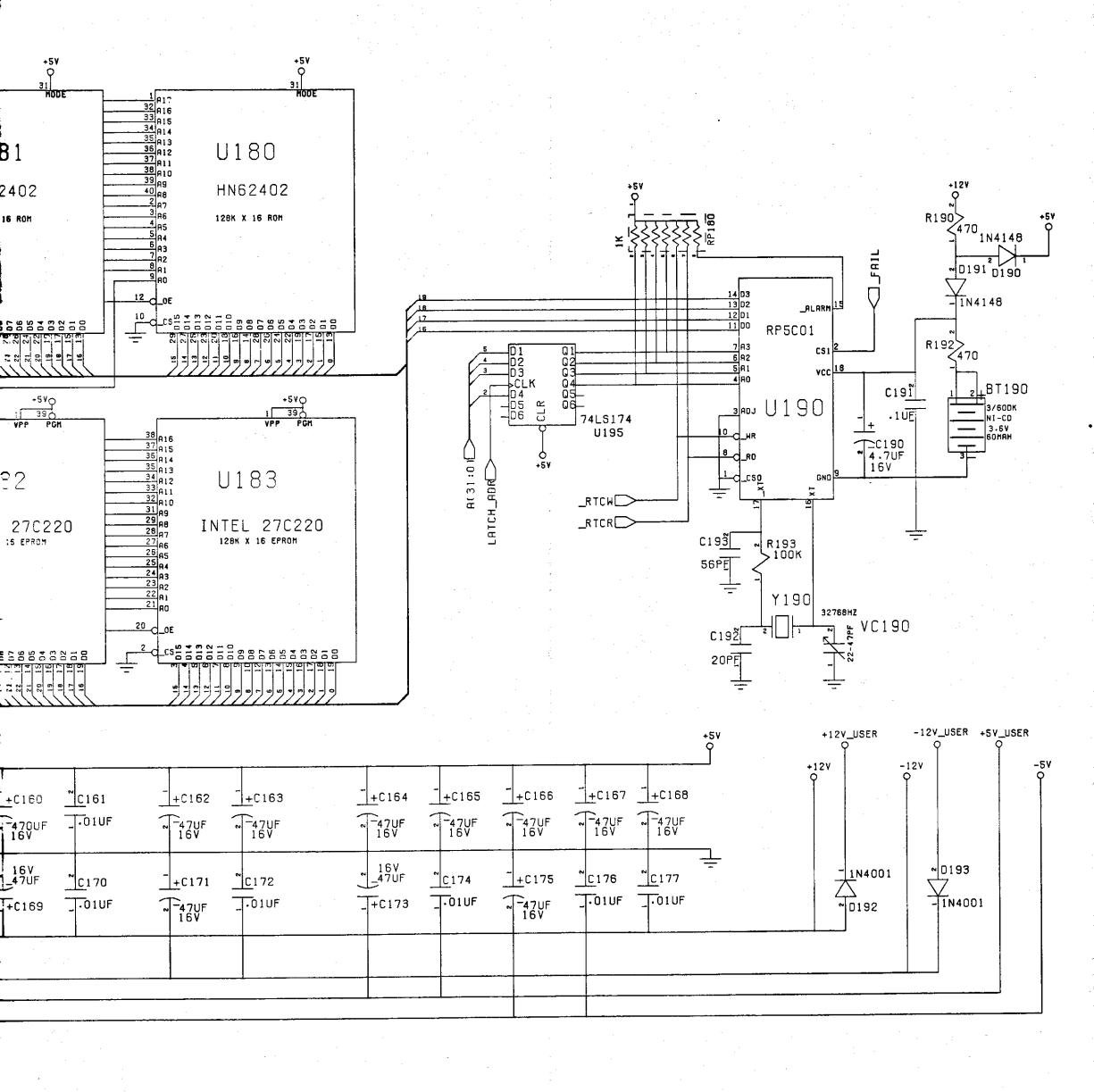




Schematic #313311, Rev. A Sheet 3 of 16





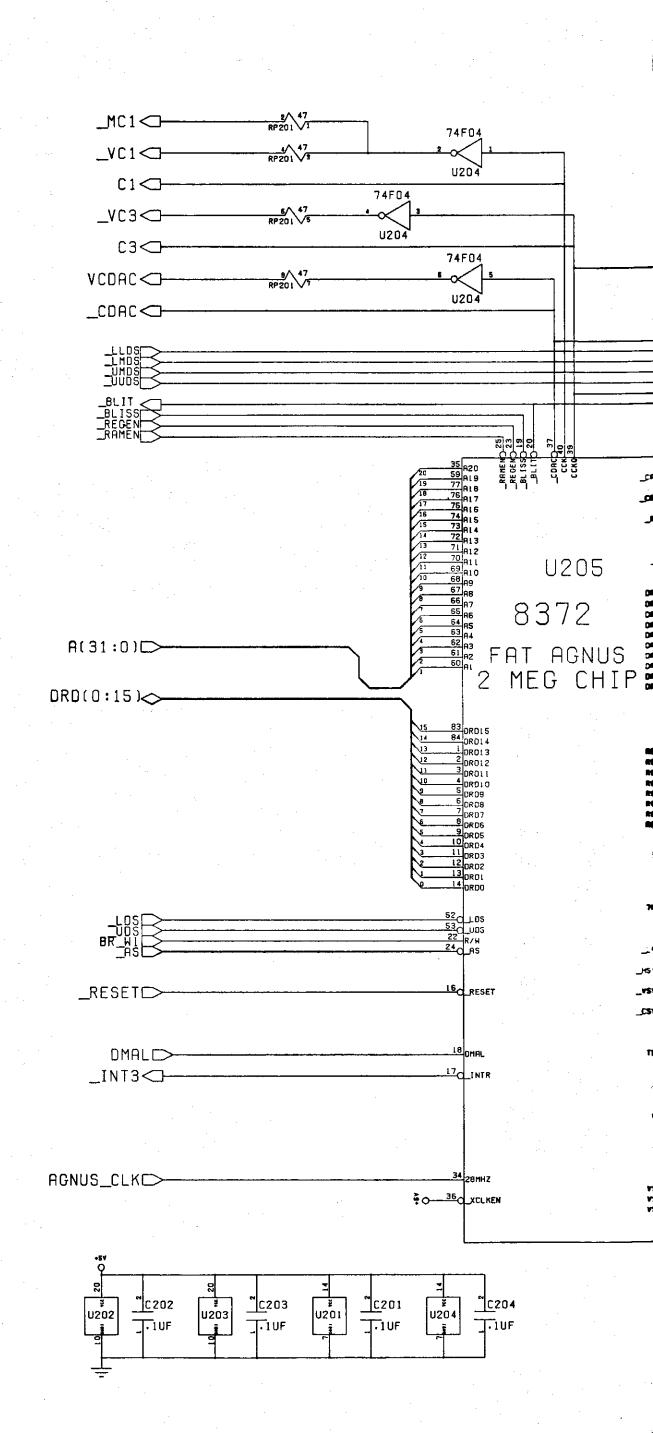


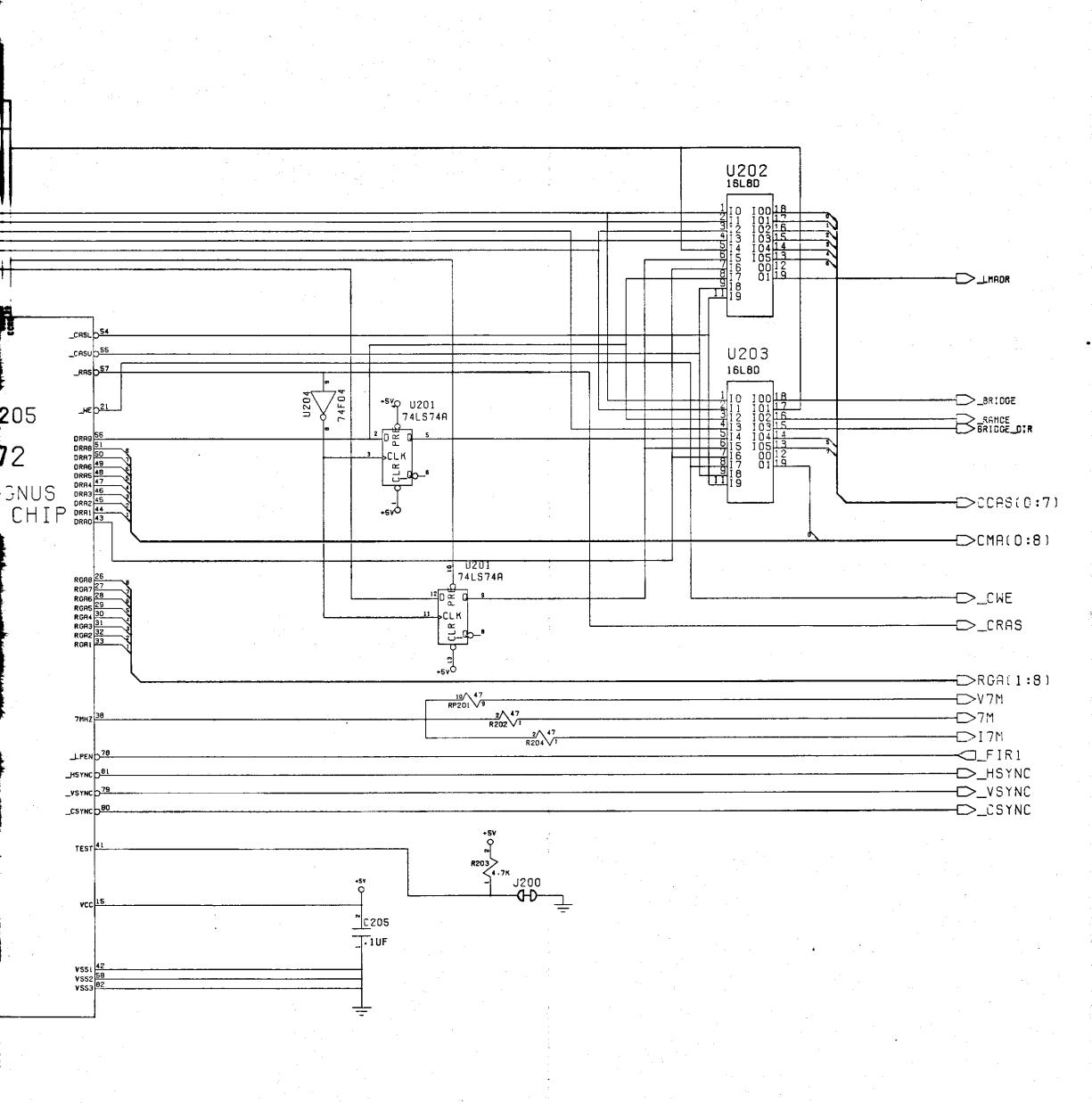
C182

_ .22

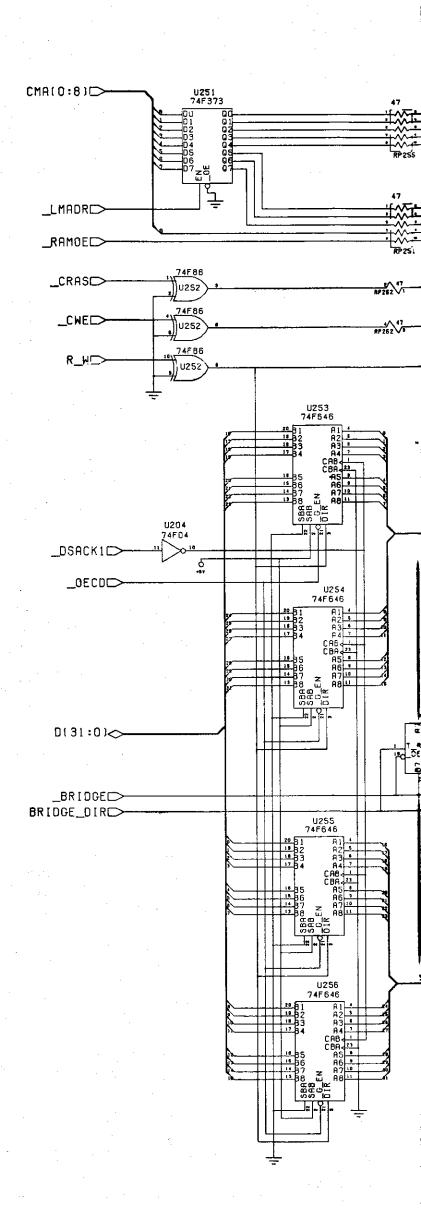
C181

Schematic #313311, Rev. A Sheet 4 of 16

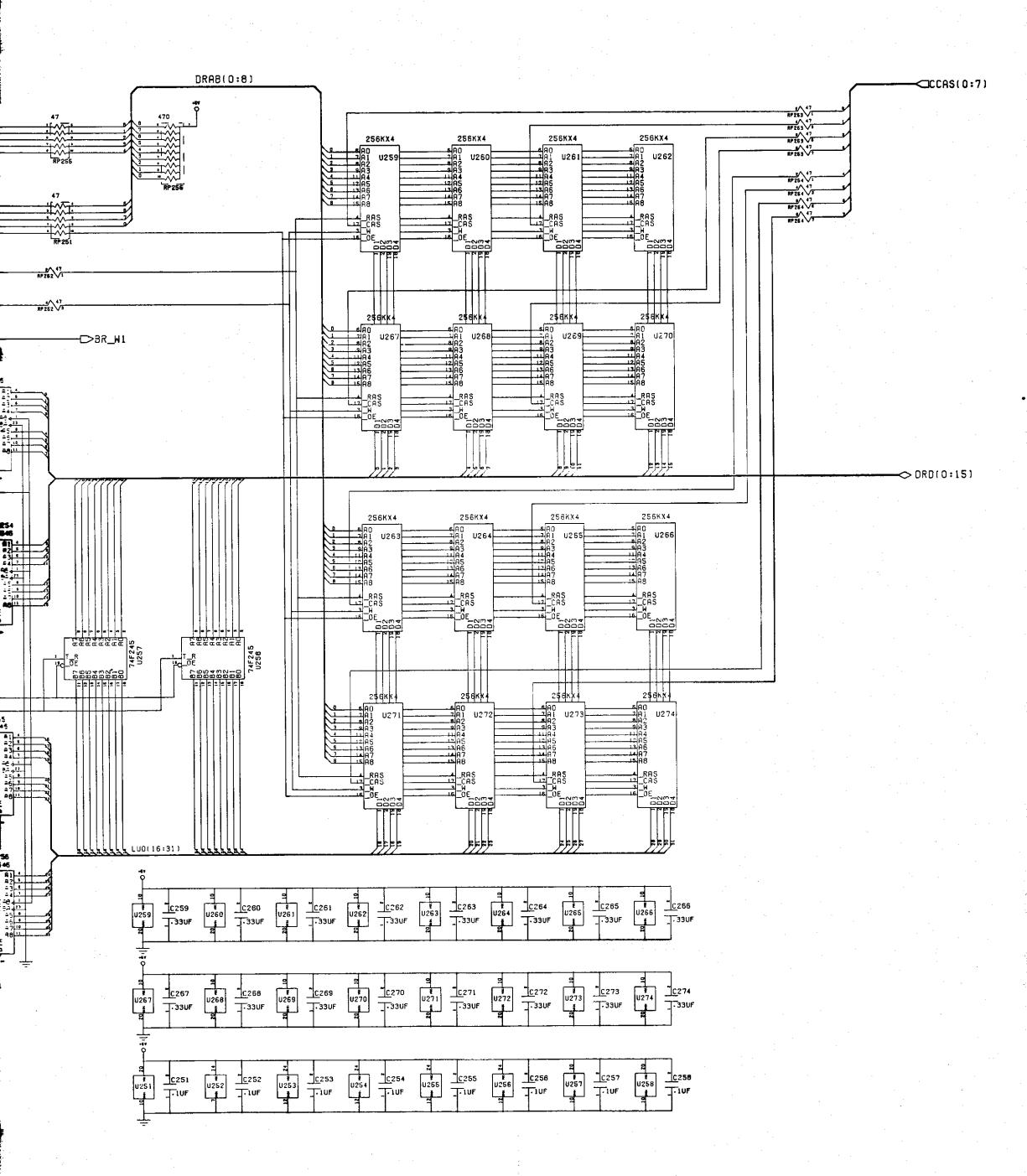




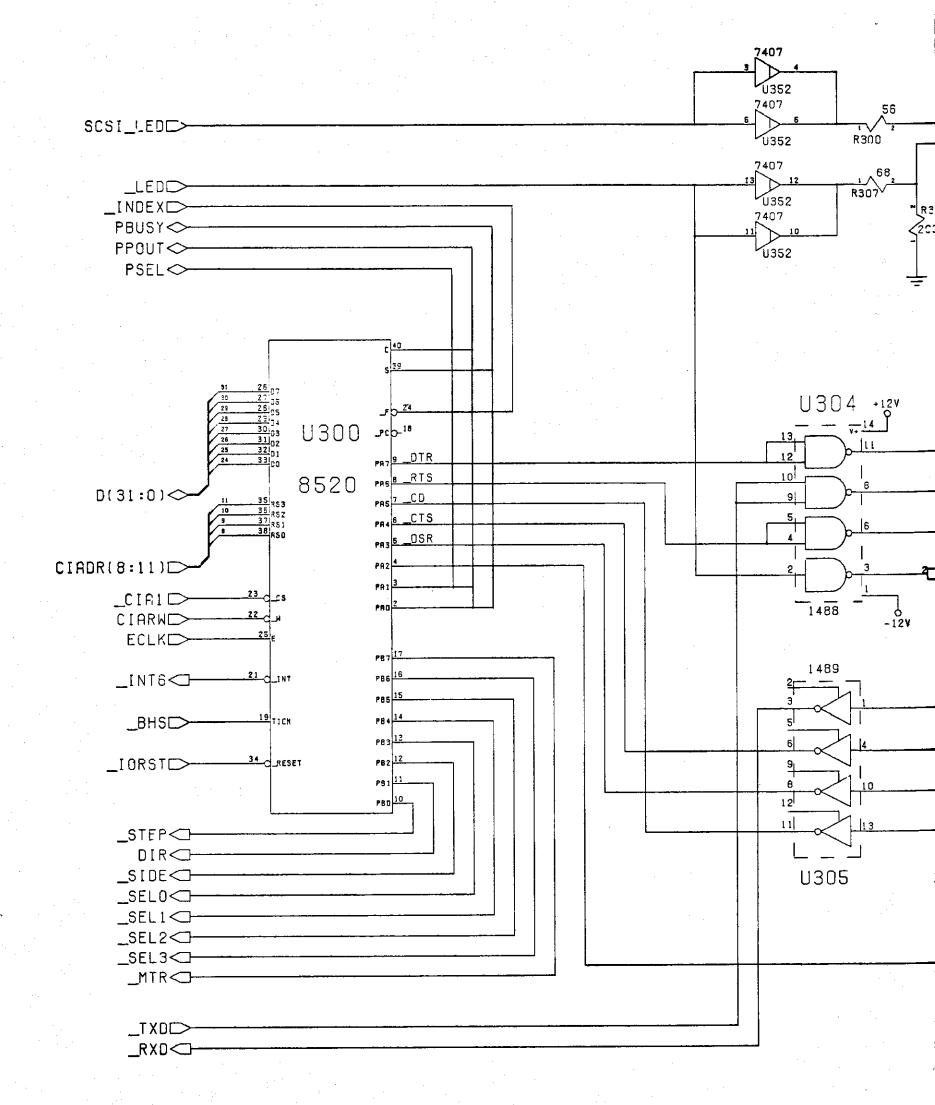
Schematic #313311, Rev. A Sheet 5 of 16

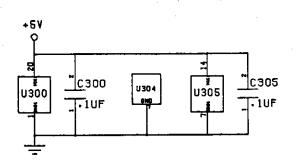


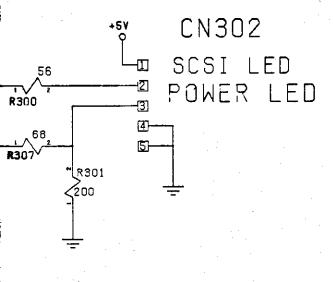
47 RPZEZ VE RPZEZ V7

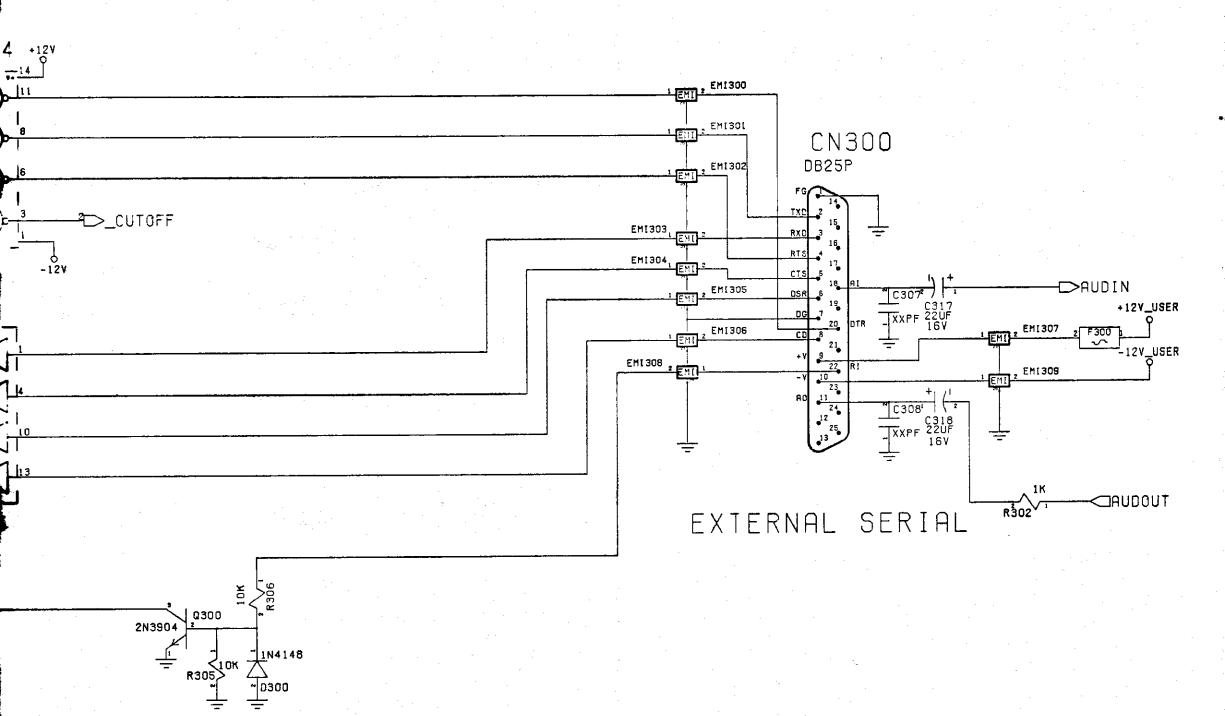


Schematic #313311, Rev. A Sheet 6 of 16

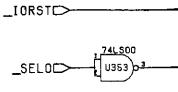


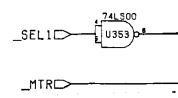


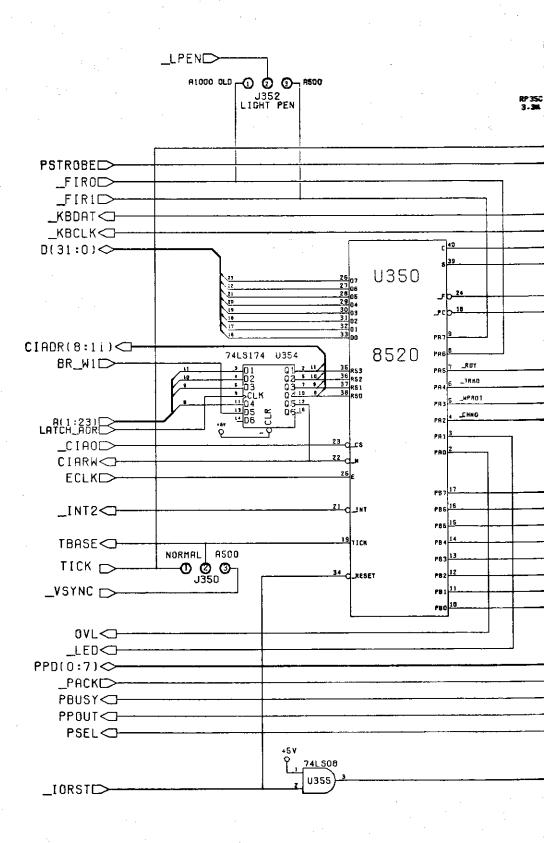


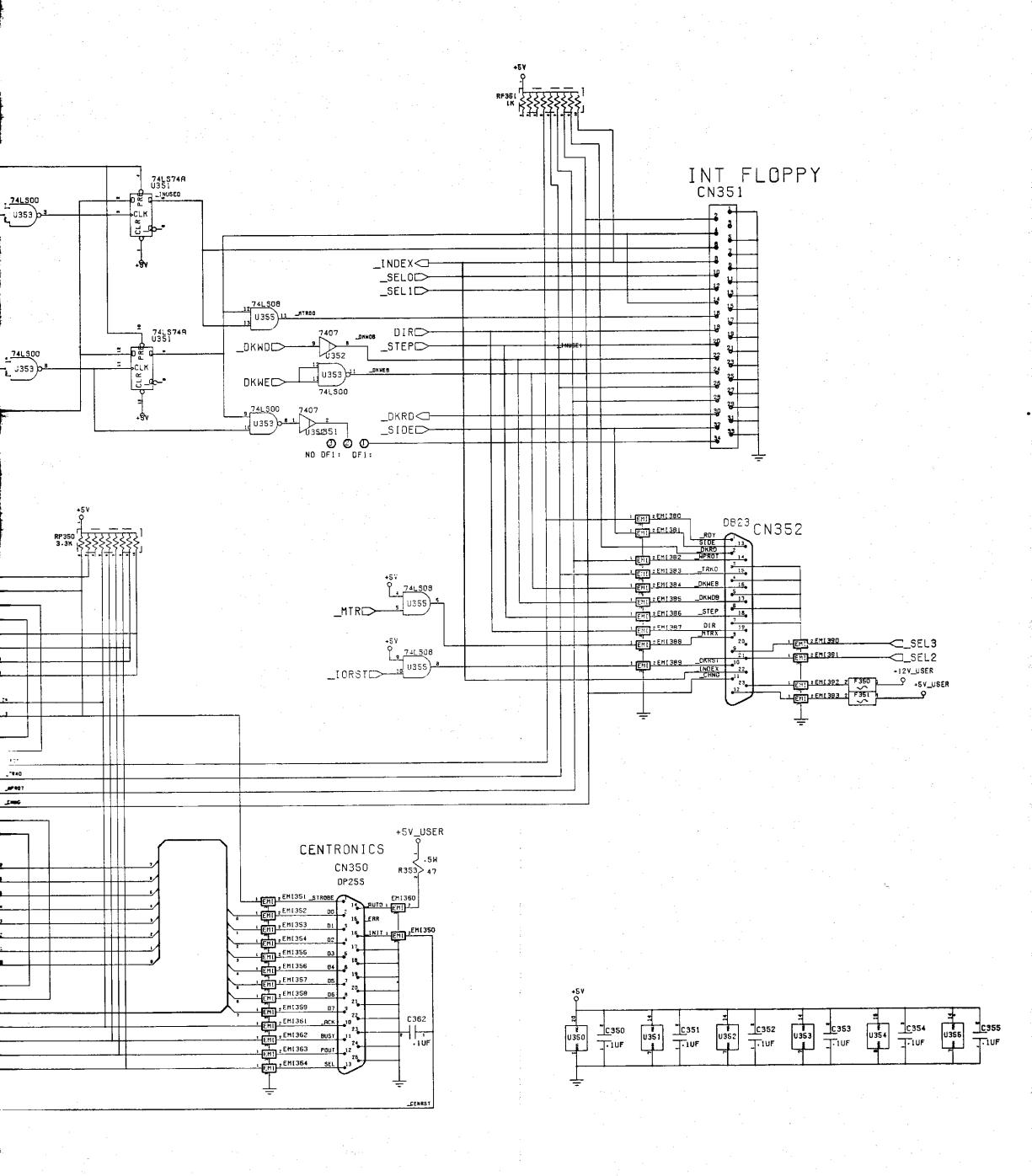


Schematic #313311, Rev. A Sheet 7 of 16

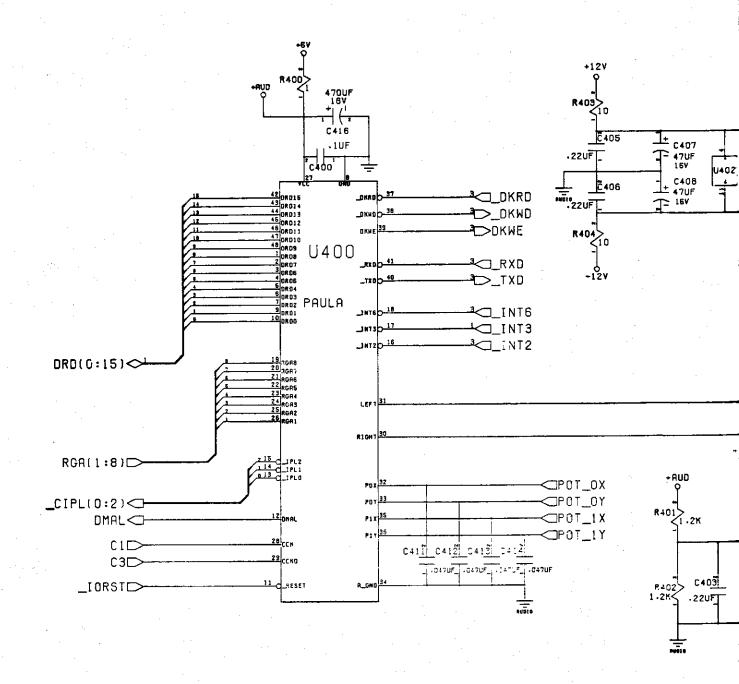


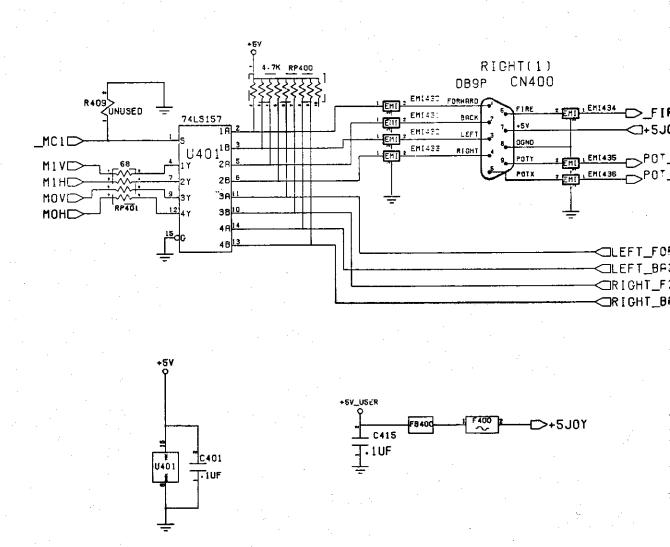


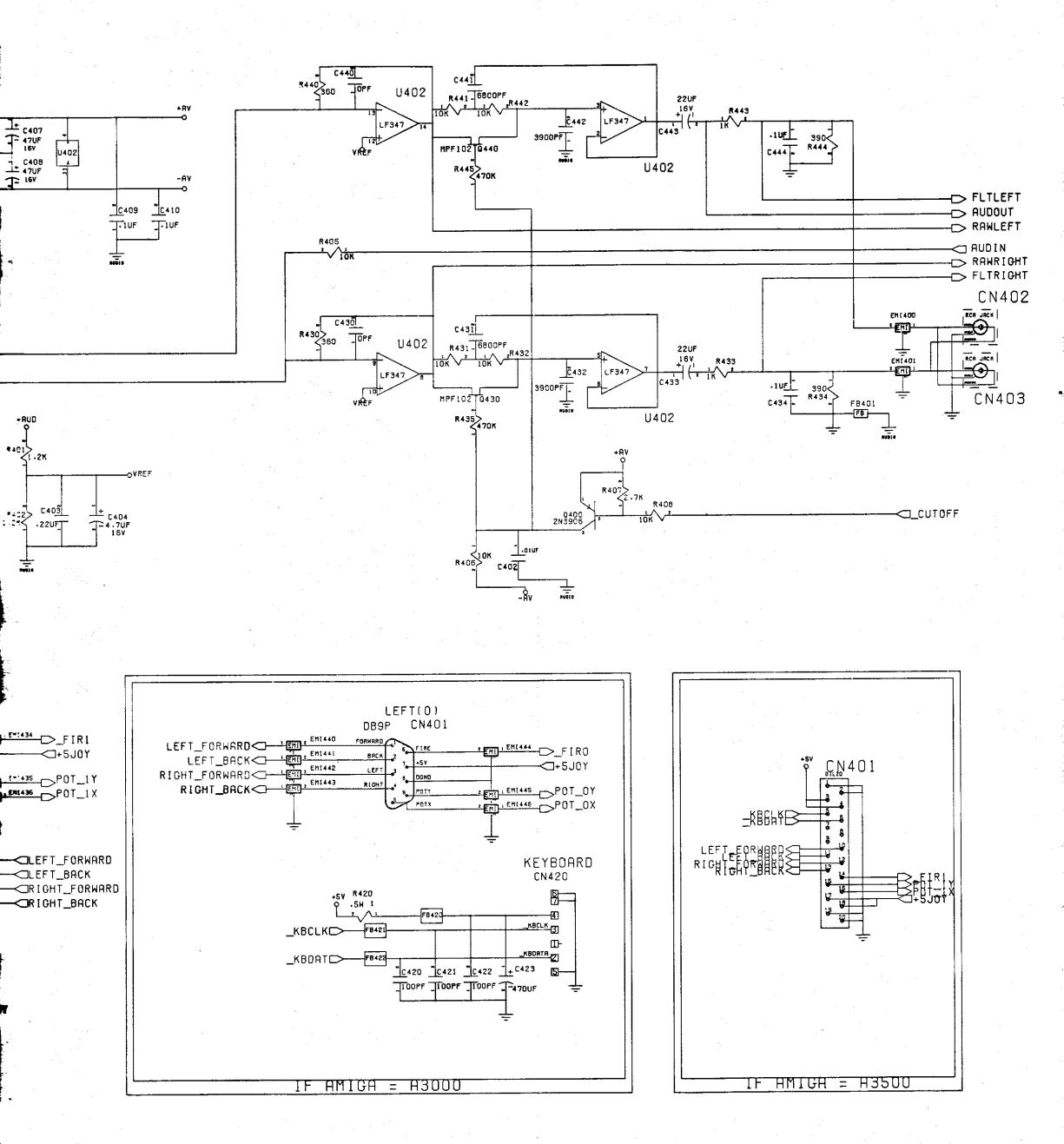




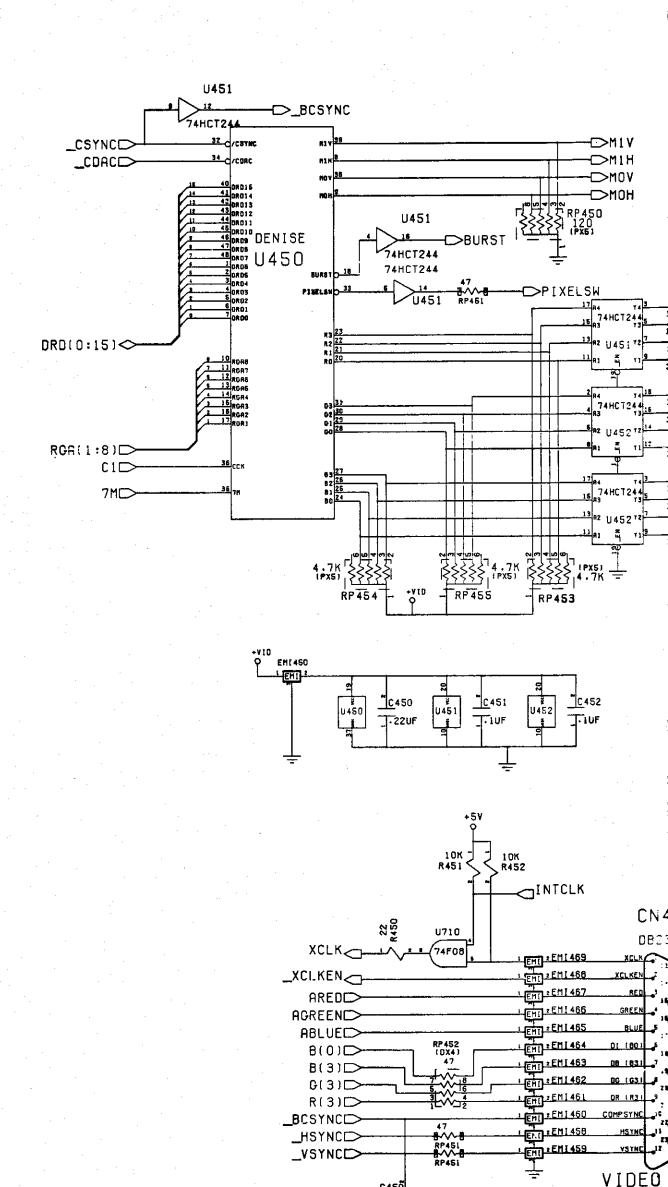
Schematic #313311, Rev. A Sheet 8 of 16







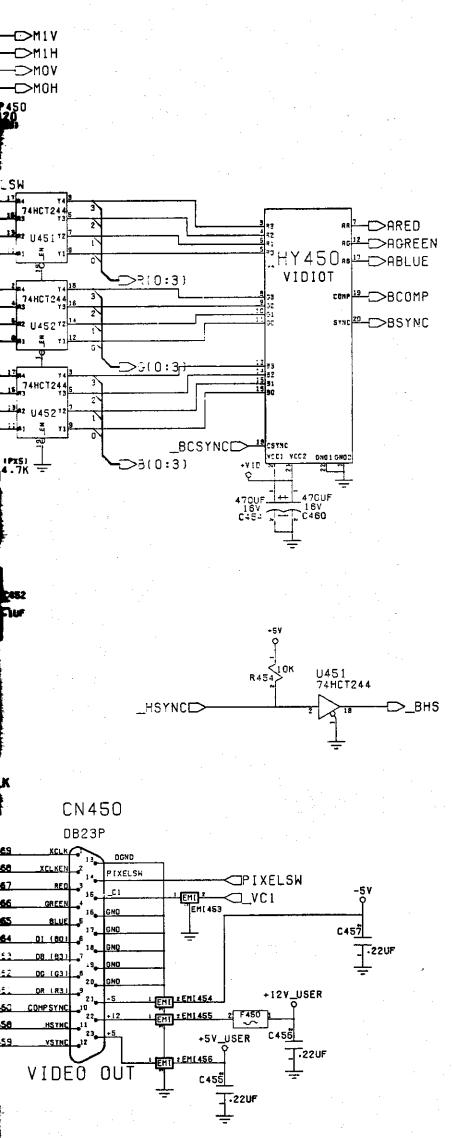
Schematic #313311, Rev. A Sheet 9 of 16

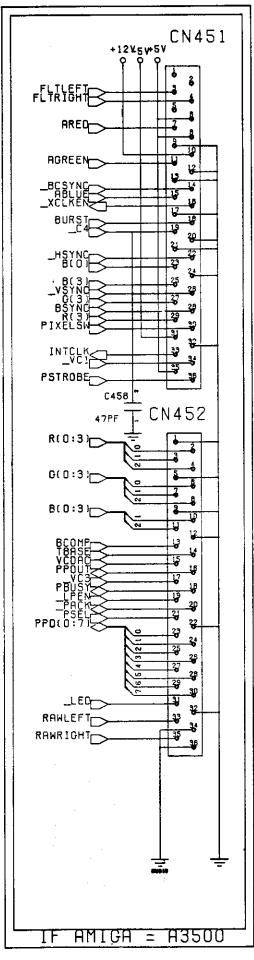


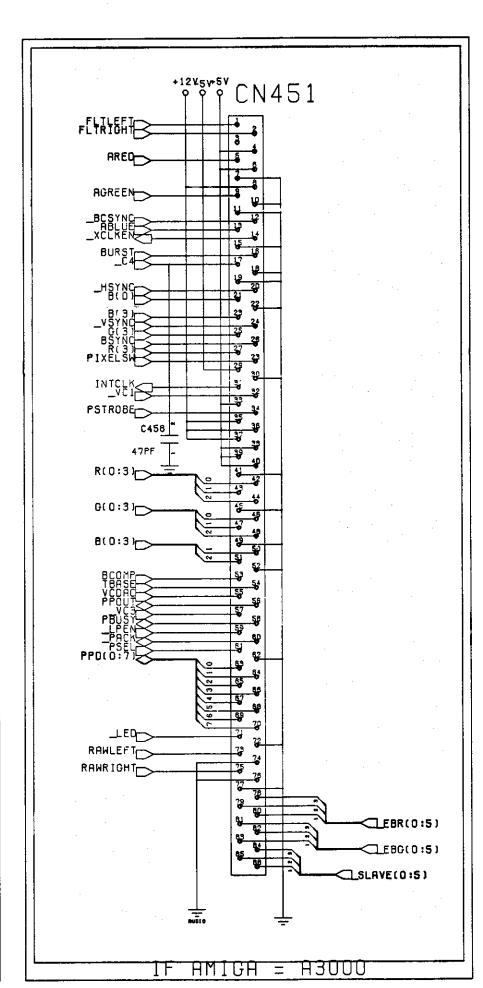
C459

100PF____

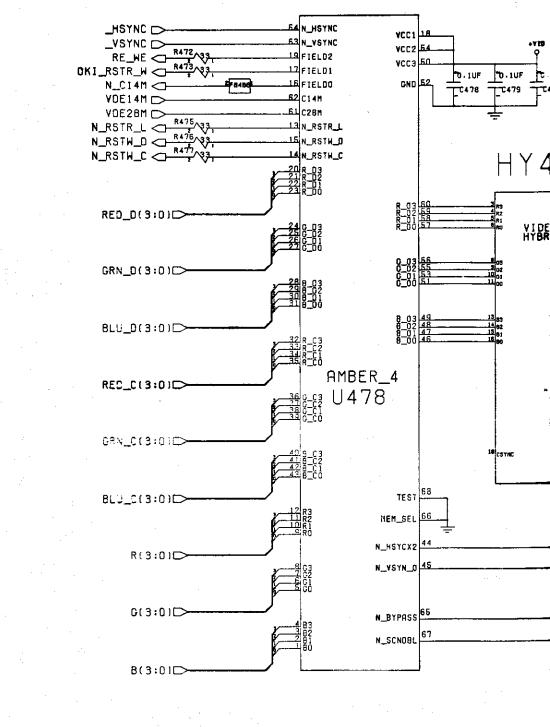
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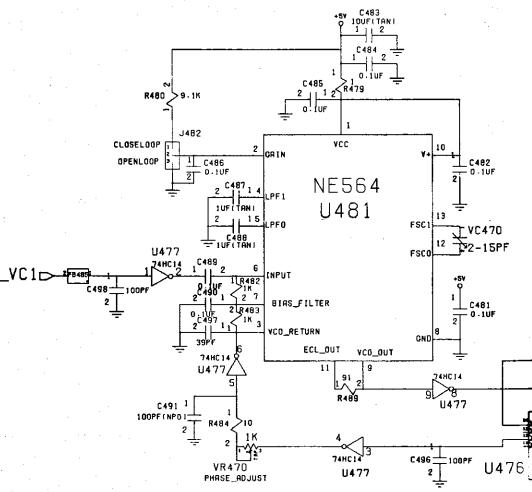


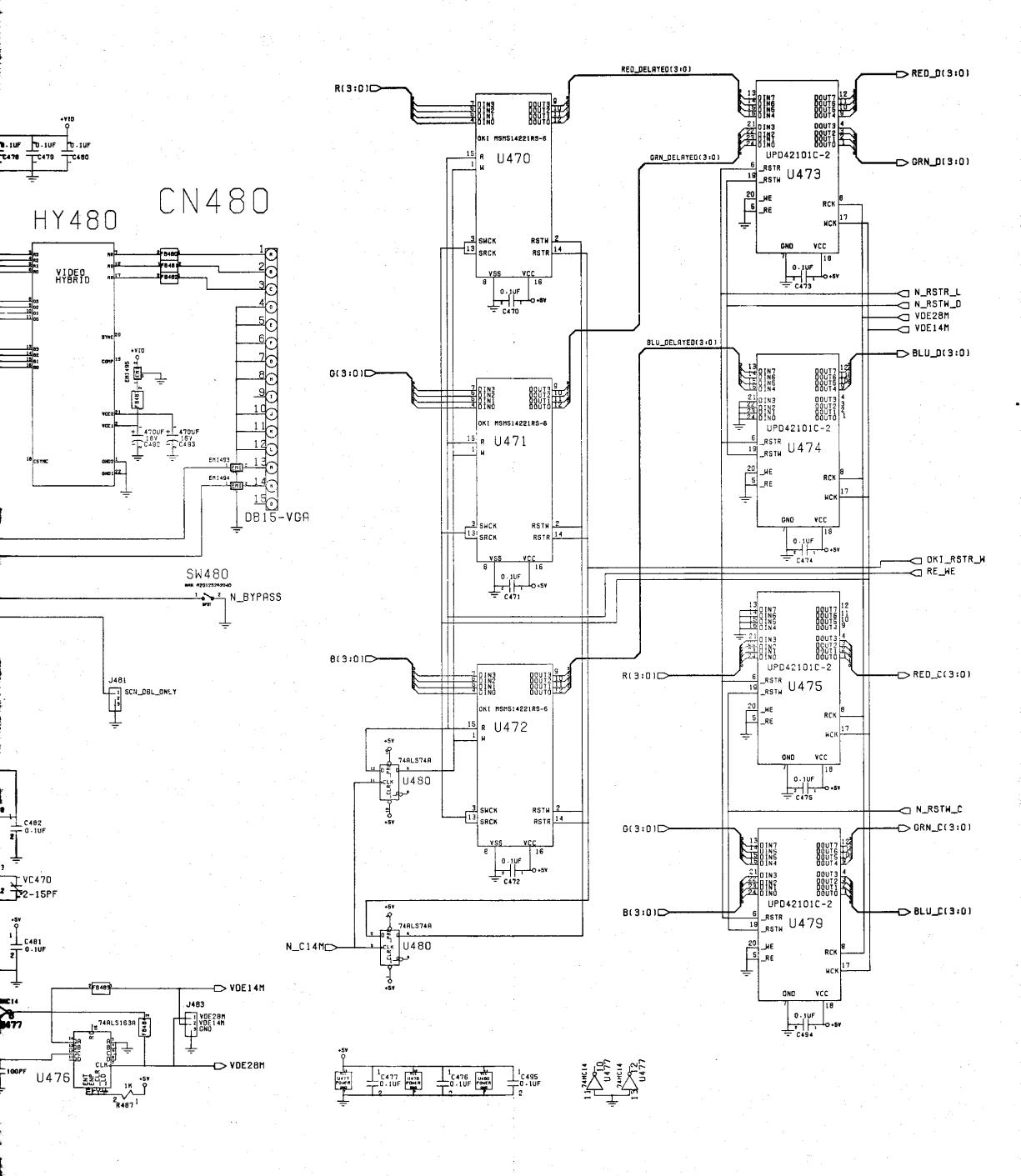




Schematic #313311, Rev. A Sheet 10 of 16







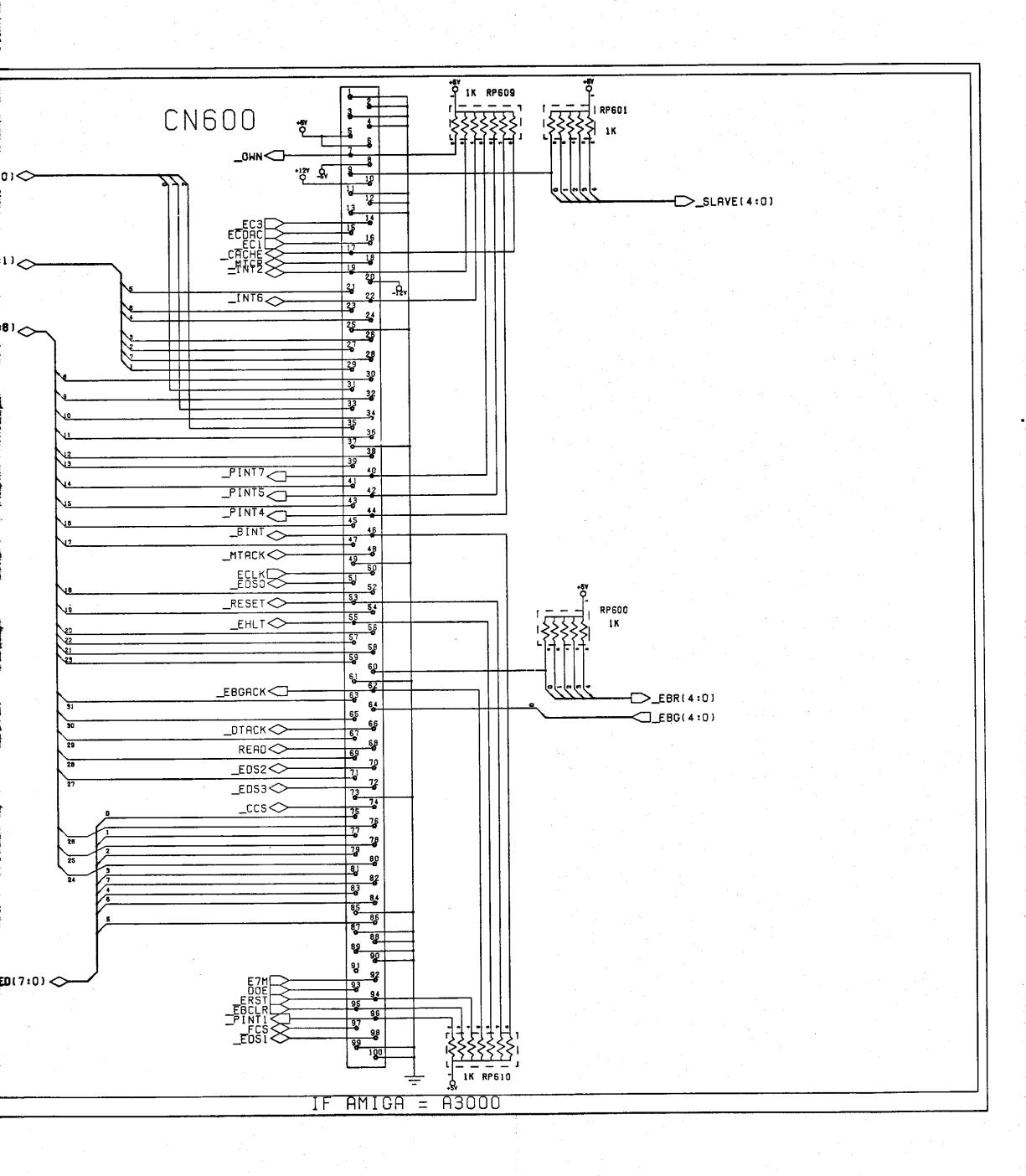
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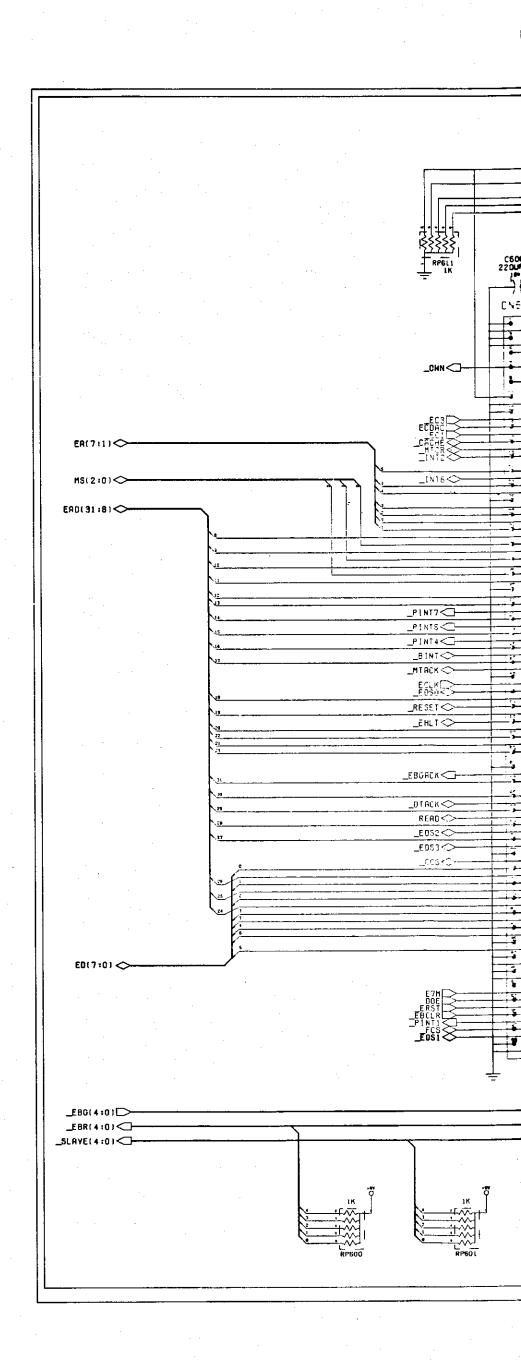
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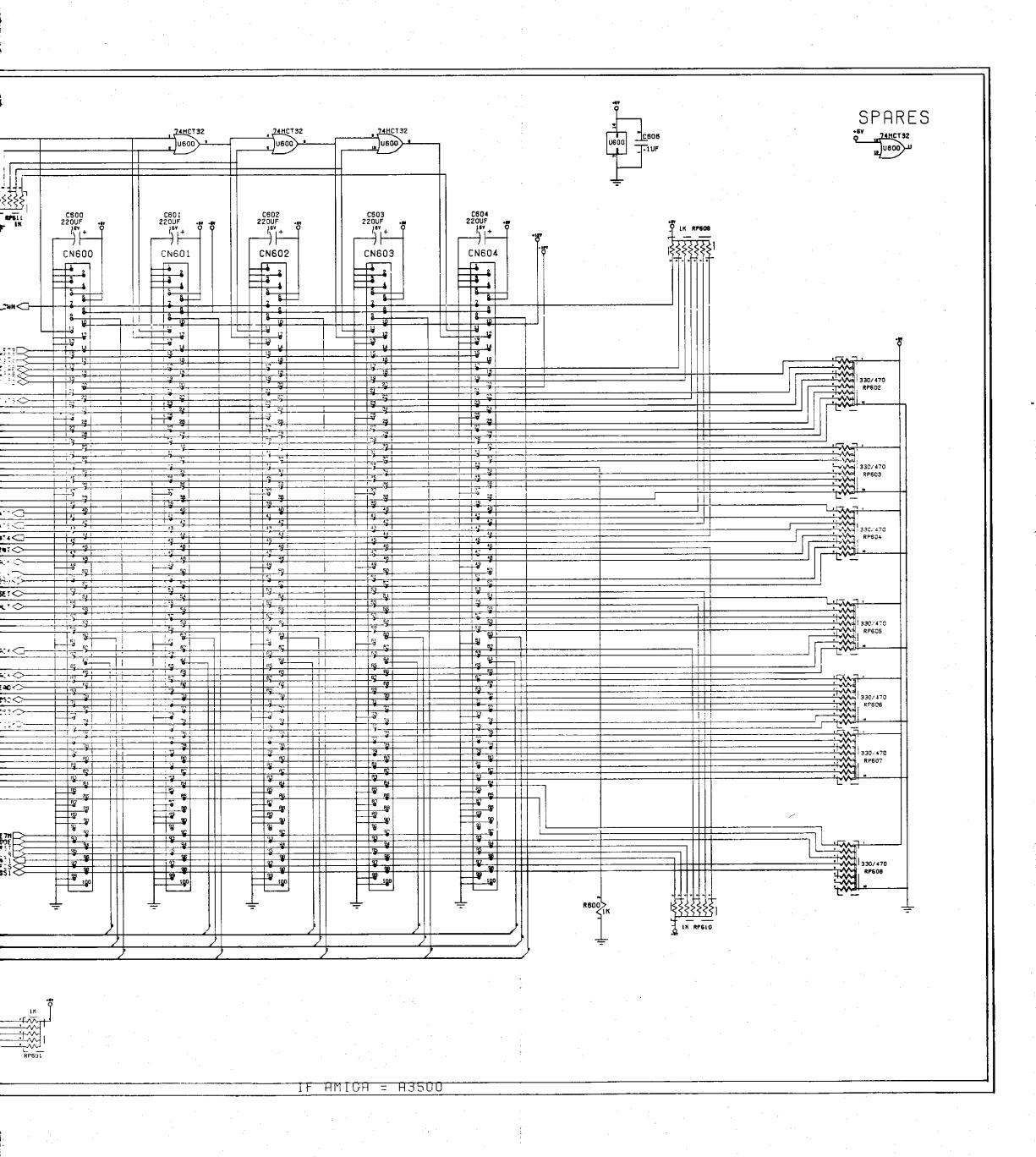
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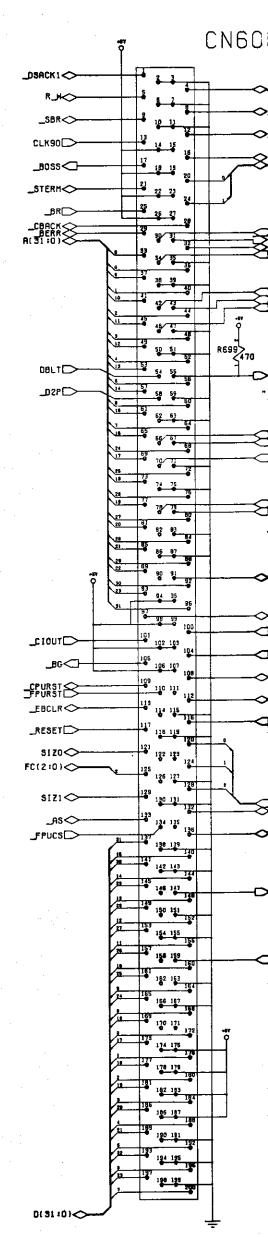
Schematic #313311, Rev. A Sheet 12 of 16



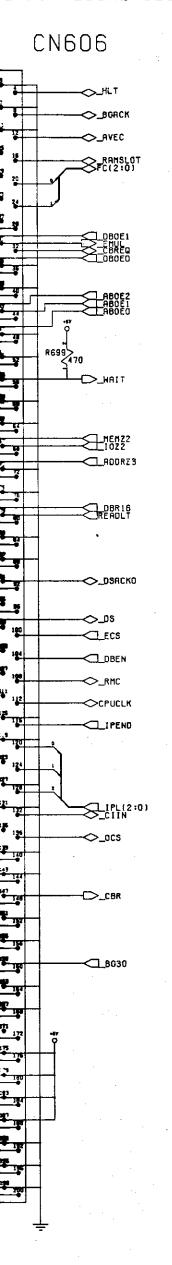


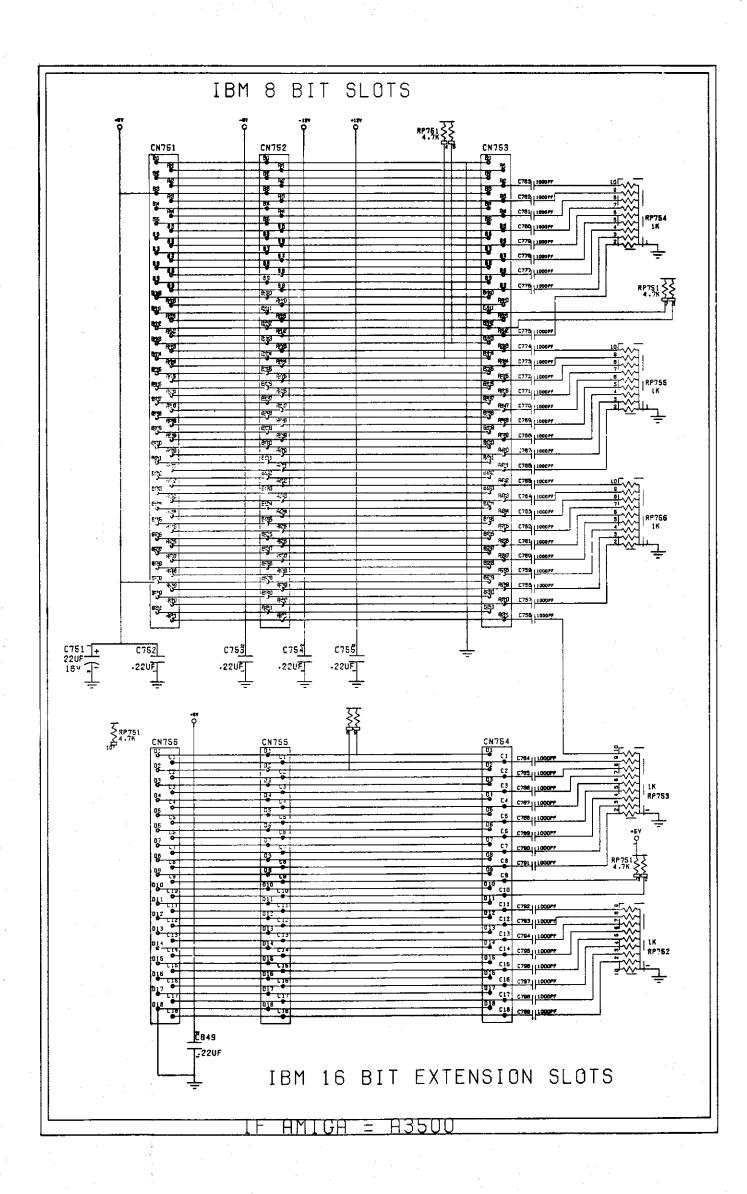
Schematic #313311, Rev. A Sheet 13 of 16

AMIGA 32 BIT LO

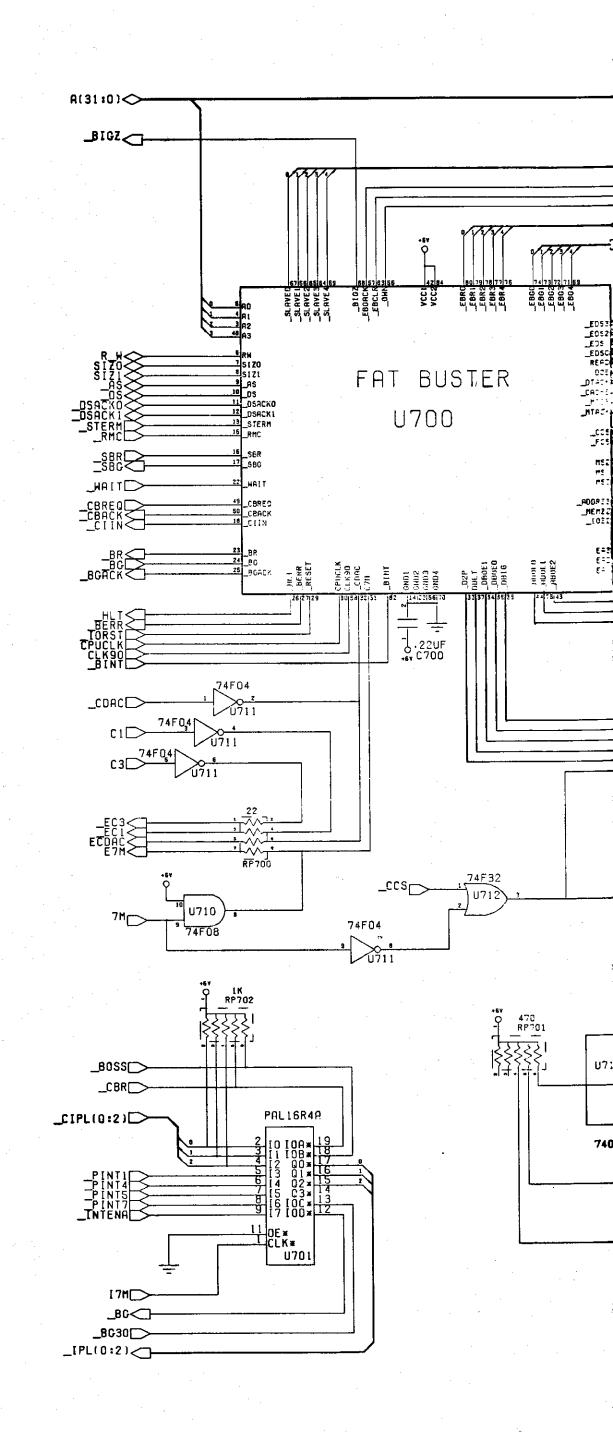


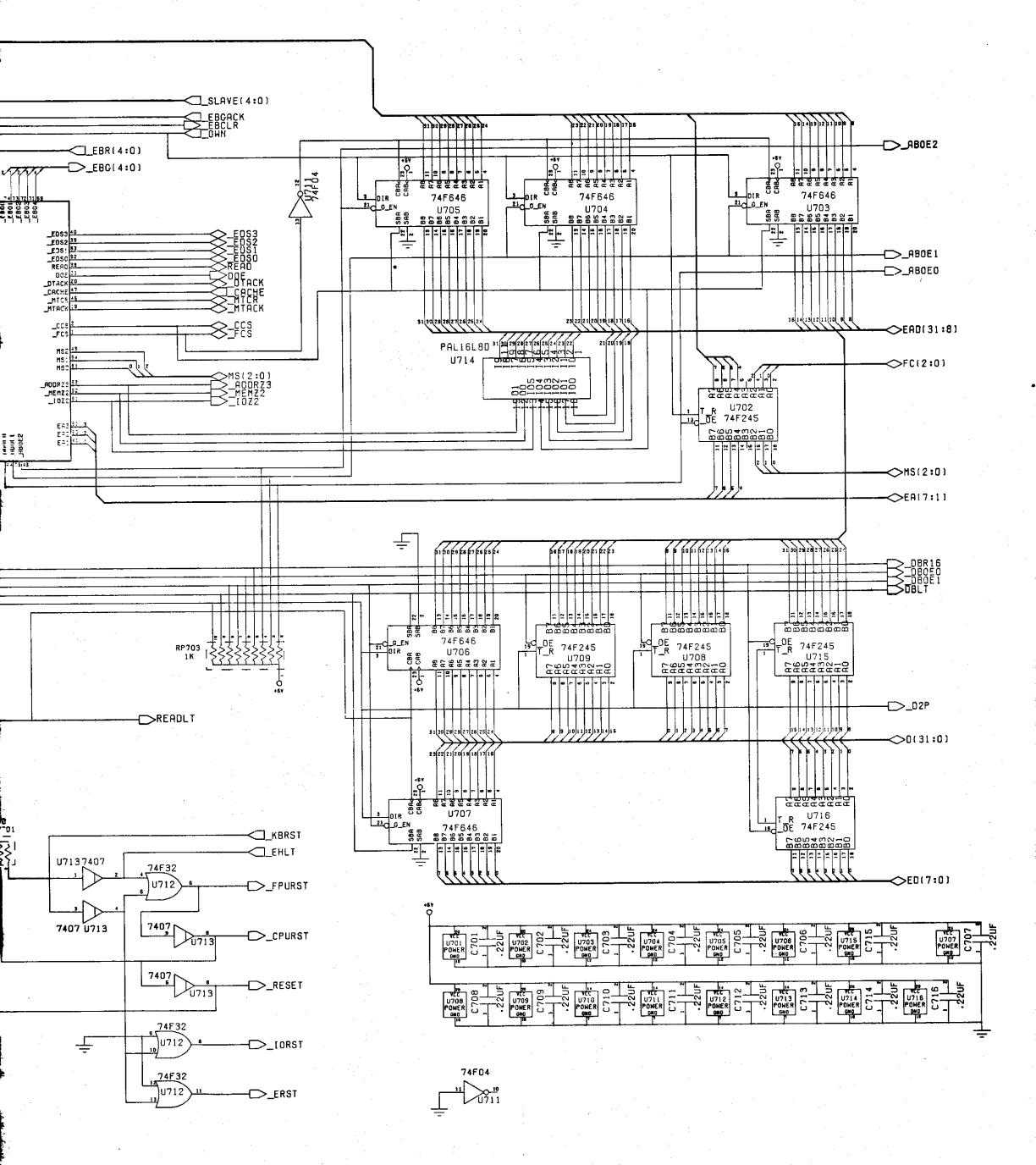
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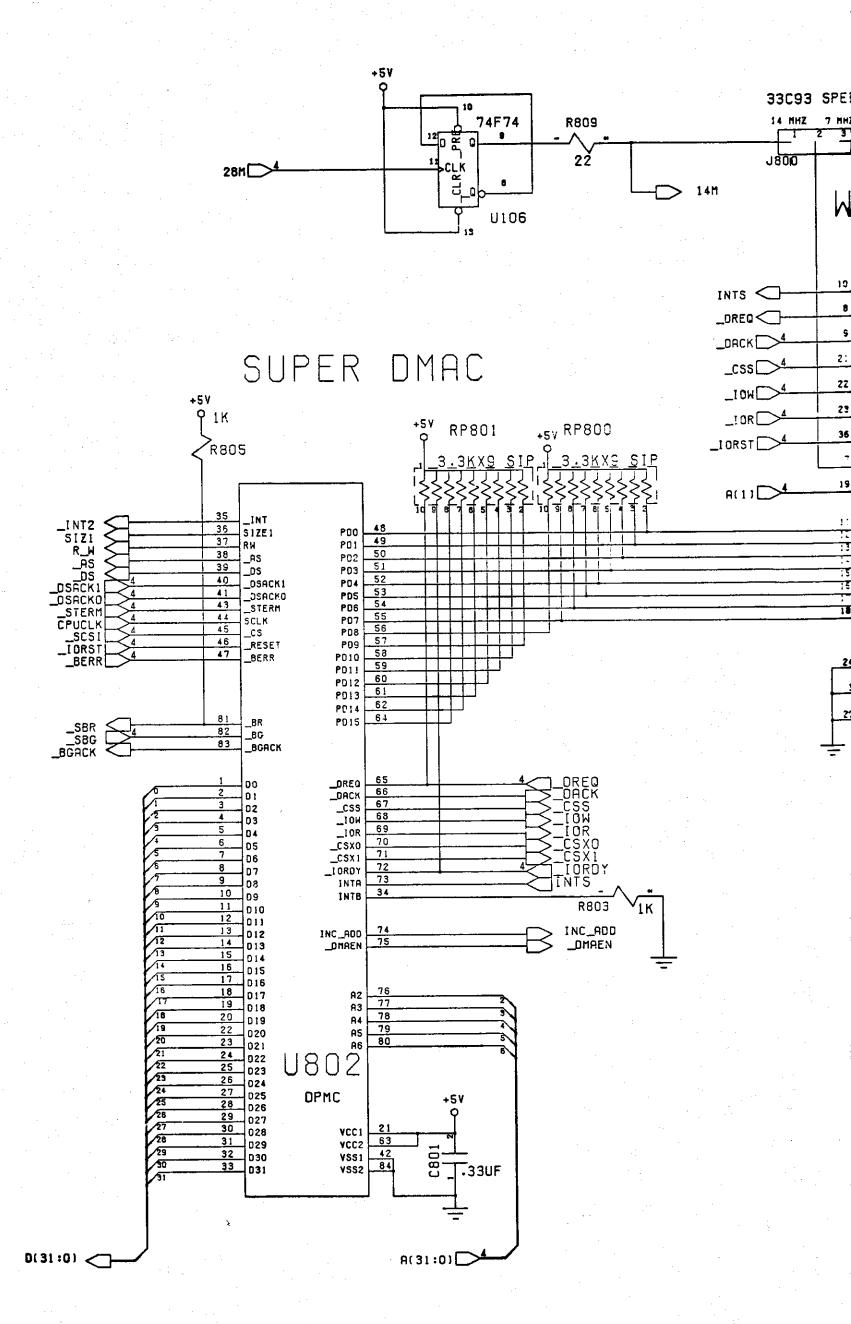


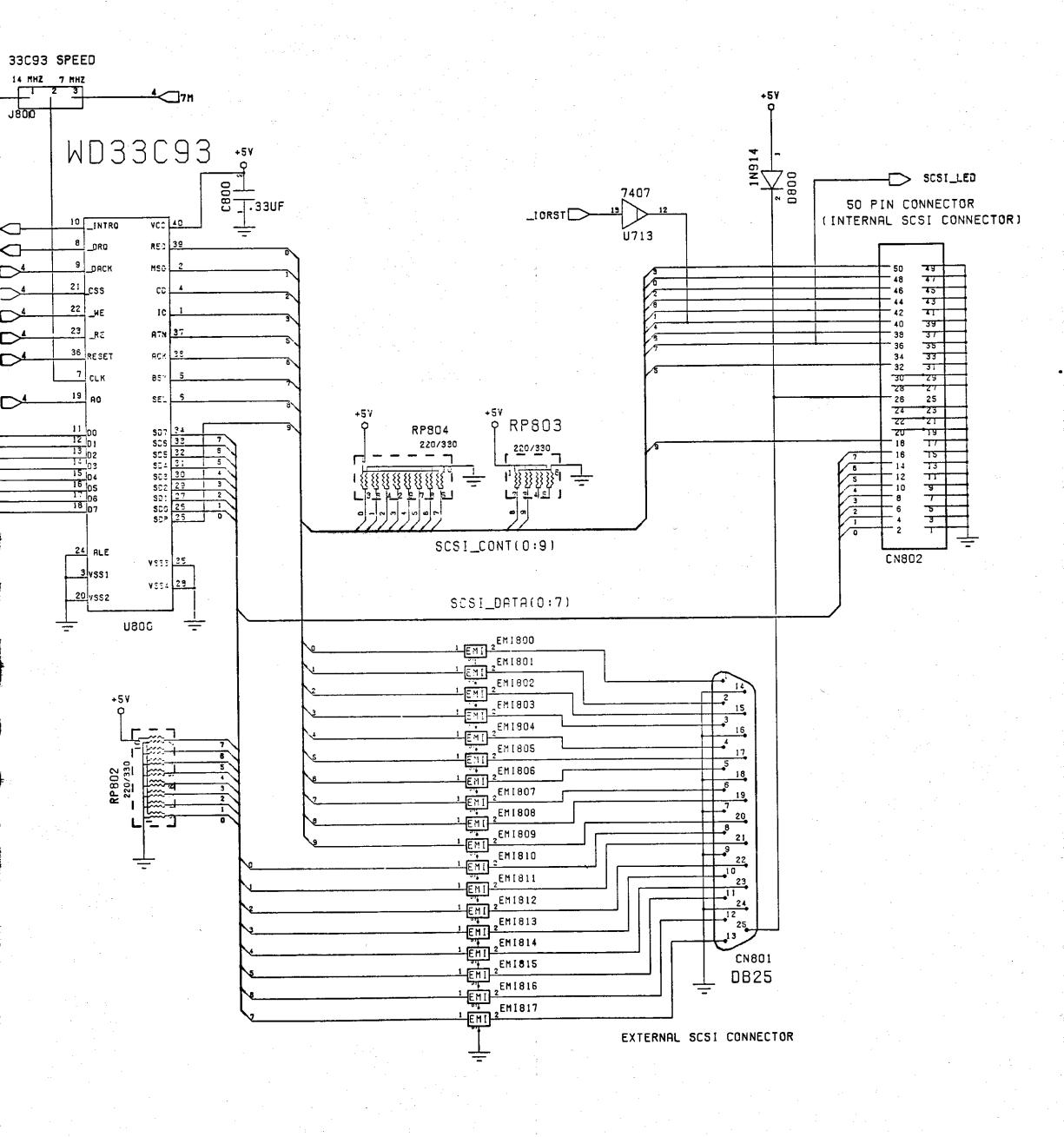


Schematic #313311, Rev. A Sheet 14 of 16

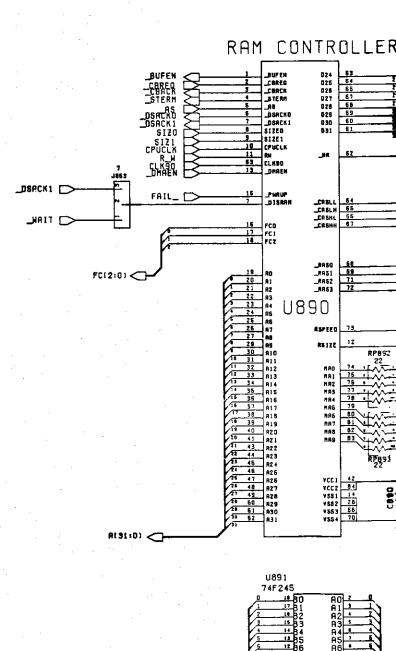




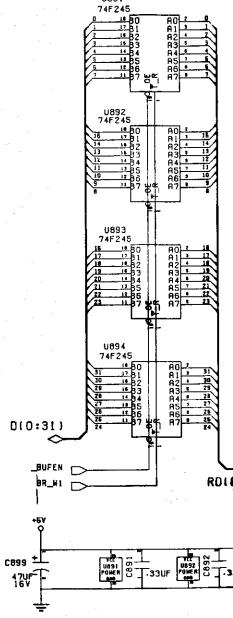


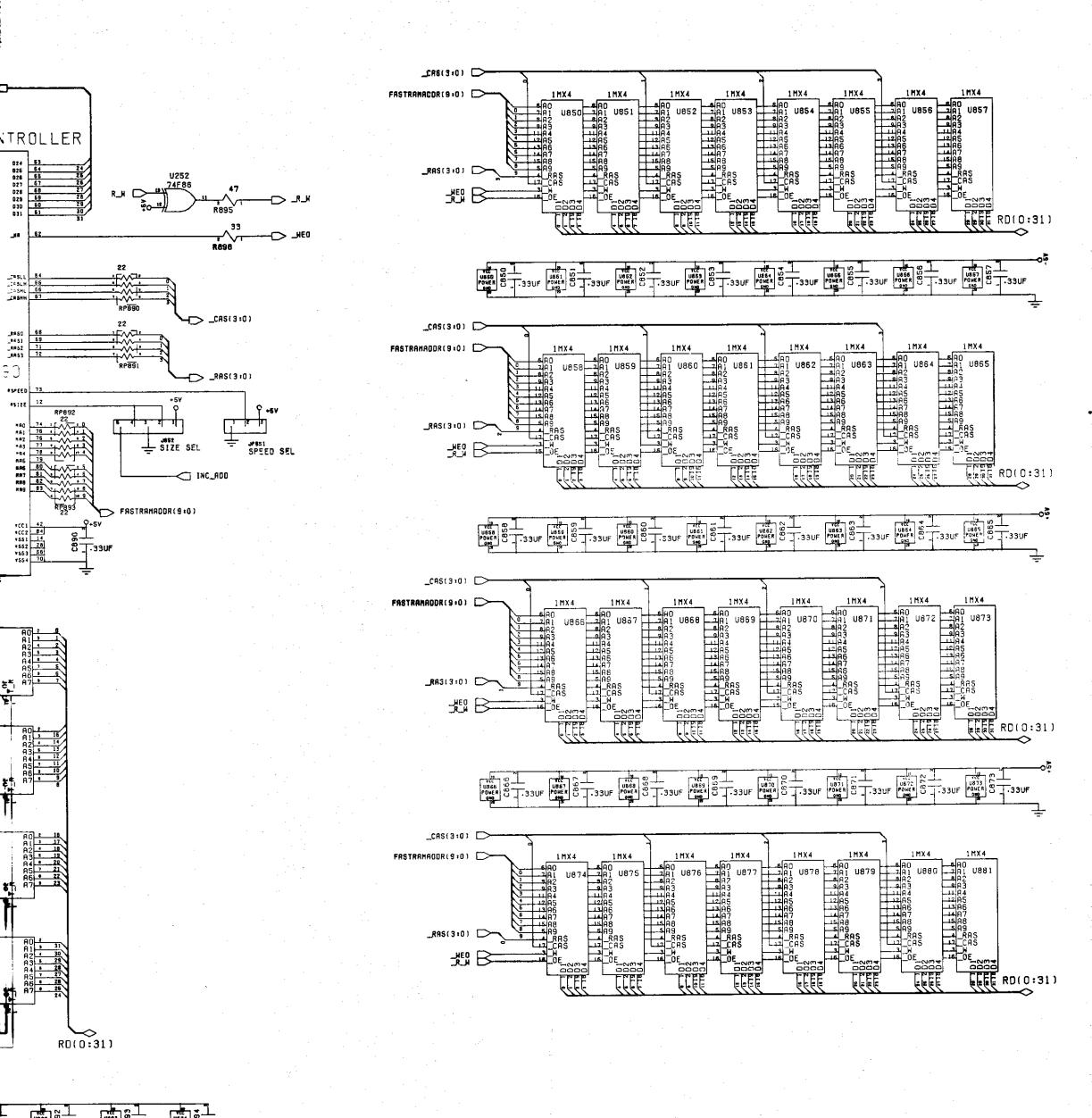


Schematic #313311, Rev. A Sheet 16 of 16

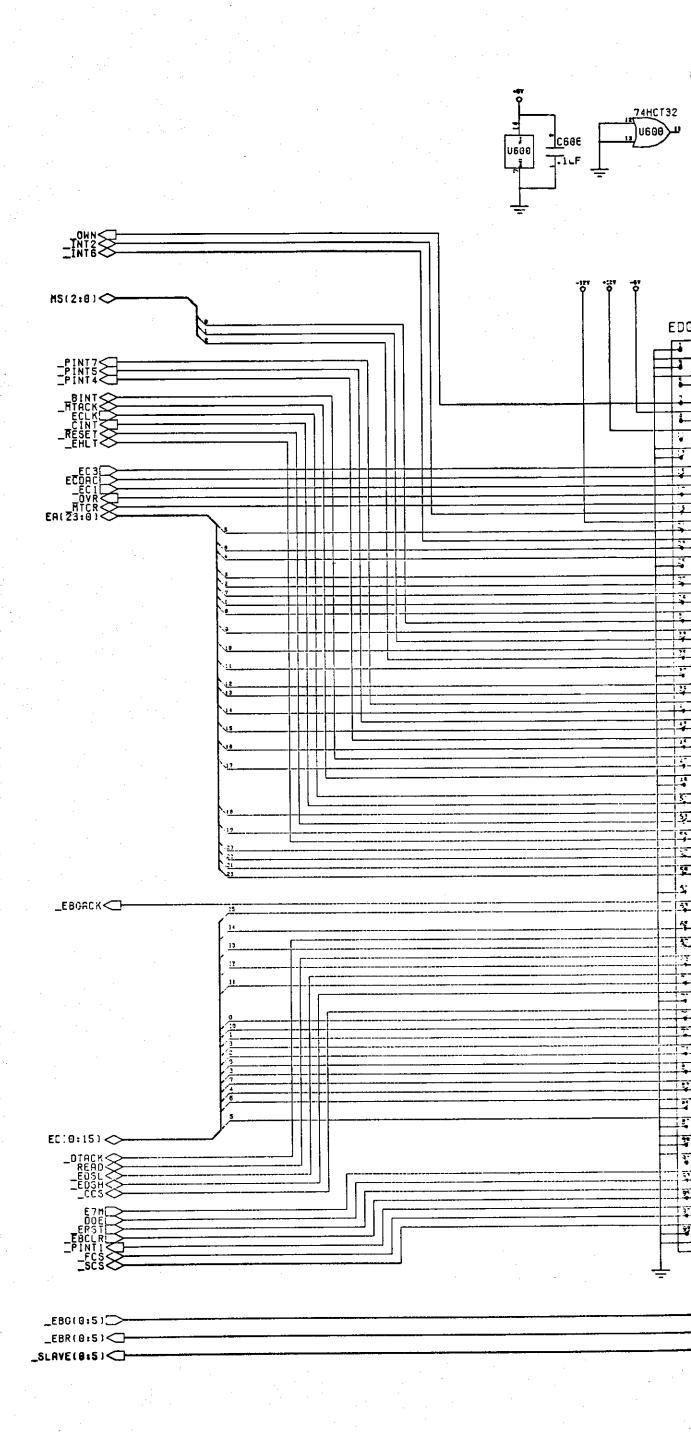


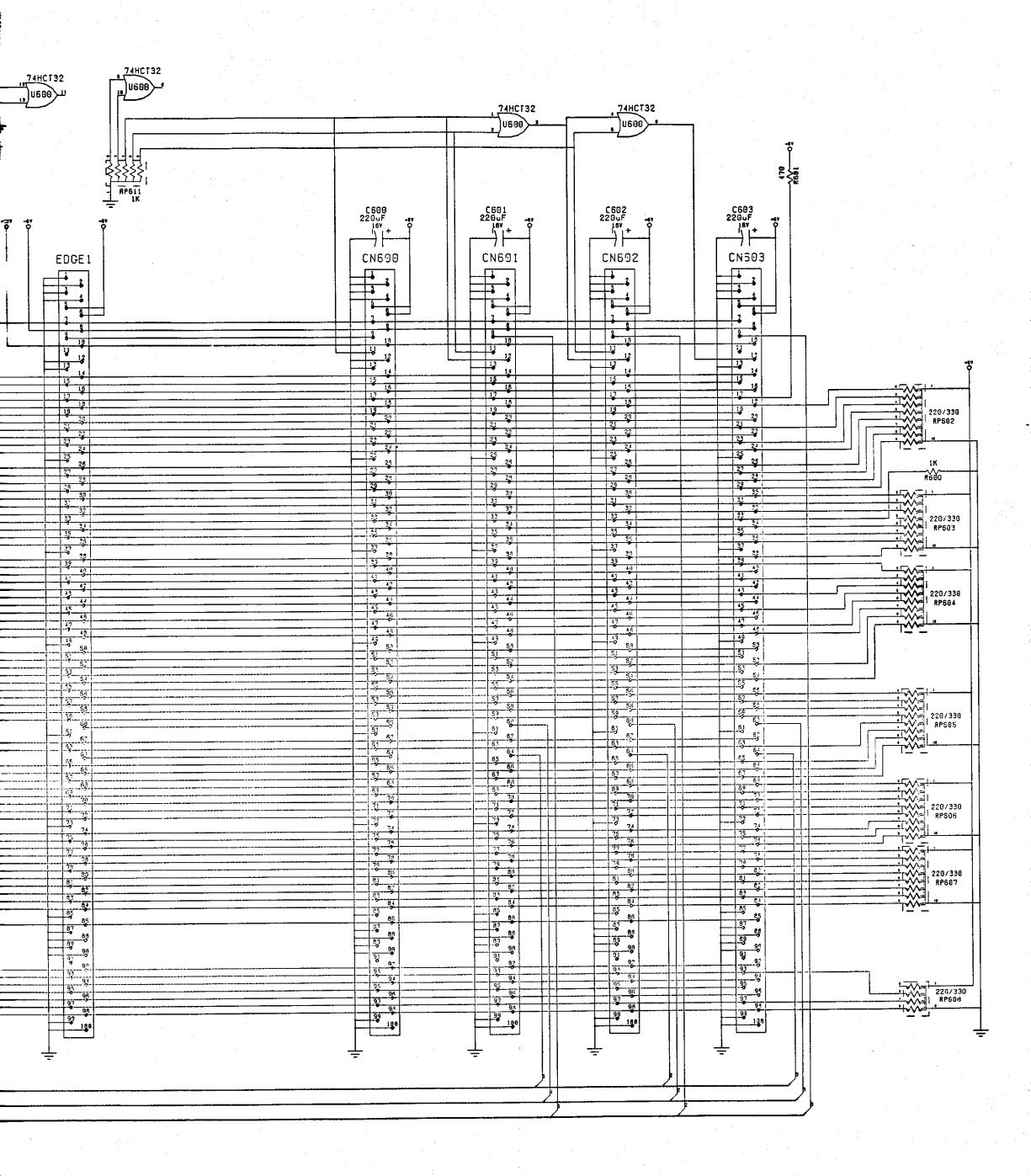
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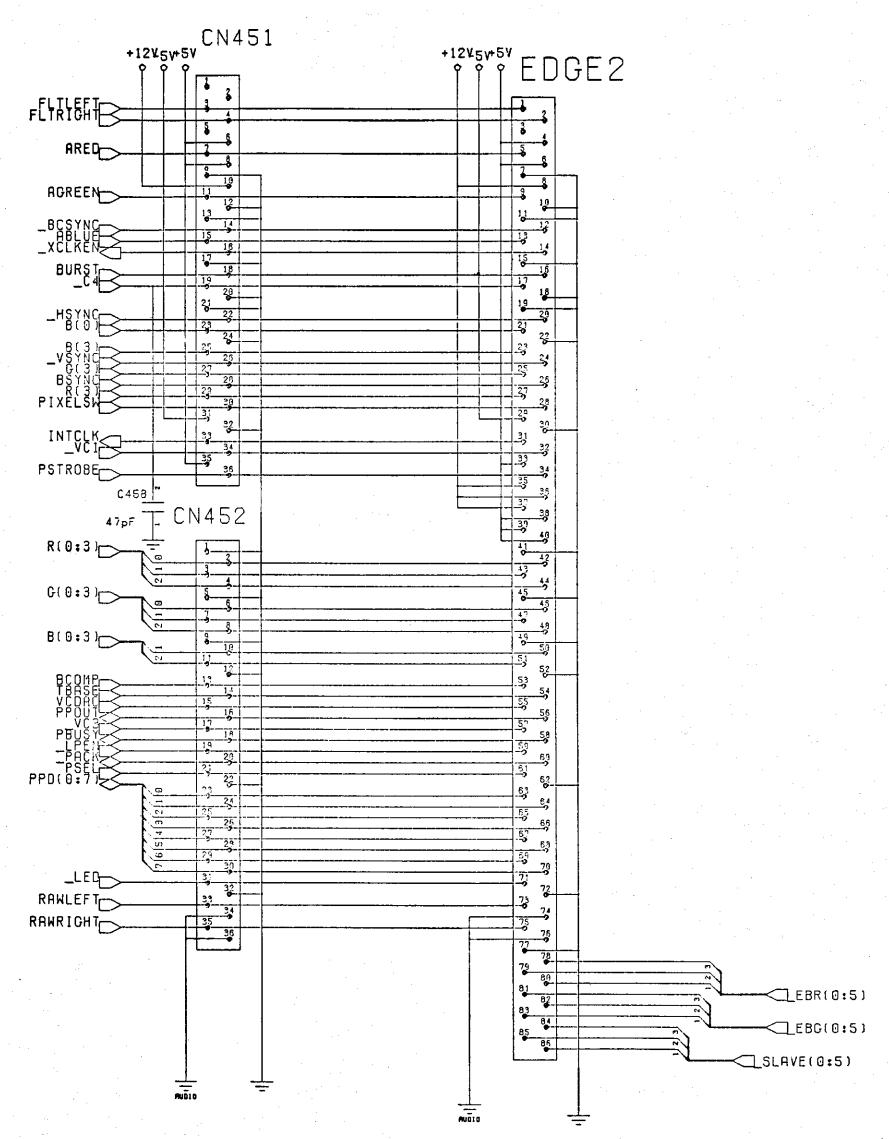


Schematic #313251, Rev. A
Sheet 1 of 2





, C



IBM 8 B

C751 22uF 16V

M 8 BIT SLOTS

